Environment Canada Environnement Canada

Historical Streamflow Summary

Manitoba

Sommaire chronologique de l'écoulement

TO/JUSQU'À **1986**

INLAND WATERS/LANDS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1987

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ET DES TERRES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Winnipeg, Manitoba.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la supervision du Chef régional de la Direction des ressources en eau, à Winnipeg (Manitoba).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents a summary of monthly and annual mean discharges and annual extremes of discharge for rivers in Manitoba for which streamflow data to 1986 inclusive have been collected by the Water Survey of Canada. This edition supersedes all previous editions.

A program for the collection and publication of Surface Water Data has been carried on across Canada for over 75 years. The results of these hydrometric survey investigations have been published annually.

Discharge data are available on punched cards or magnetic tape for computer processing. These data and details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2
(204 949-2434)

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-1508).

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INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente un sommaire des moyennes mensuelles et annuelles de l'écoulement et des extrêmes annuels de cours d'eau du Manitoba, pour lesquels la Division des relevés hydrologiques du Canada a obtenu des données jusqu'en 1986 inclusivement. La présente publication annule toutes les éditions antérieures.

La cueillette et la publication de données sur les eaux de surface sont en oeuvre depuis plus de 75 années au Canada. Les données obtenues à partir des relevés hydrométriques sont publiées annuellement.

On peut se procurer les données sur l'écoulement sous forme de cartes perforées ou de rubans magnétiques pour traitement sur ordinateur. En s'adressant aux endroits ci-apres, on peut obtenir ces données, des renseignements supplémentaires sur certaines stations particulières et divers relevés ainsi que des donnees récentes non encore publiées.

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Direction des ressources en eau
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521 Édifice fédéral
269, rue Main
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ou au Directeur, Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-1508).

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

Hydrometric surveys in Manitoba were conducted by the Water Survey of Canada under agreement with the Province of Manitoba. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

Stream-gauging work started in Manitoba when the Winnipeg River Power Survey was commenced in 1911 by the Dominion Water Power Branch. The Manitoba Hydrographic Survey was organized in early 1912 and the survey was expanded to embrace all Manitoba and the Lake of the Woods in Ontario. Following the transfer of the natural resources of Manitoba to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Manitoba for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933, work was continued by the federal government under letter arrangement until 1975. A co-operative agreement was signed with the Government of Manitoba on February 18, 1975 and implemented on April 1, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

La Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques au Manitoba en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, apres entente mutuelle sur leur programme.

C'est en 1911, lorsque la Direction fédérale de l'énergie hydraulique a fondé le *Winnipeg River Power Survey*, que cet organisme a effectué les premières observations relatives aux cours d'eau au Manitoba. Avec la création du *Manitoba Hydrographic Survey* au début de 1912, le champ des relevés s'est élargi pour englober tout le Manitoba et le lac des Bois en Ontario. Après que la responsabilité des ressources naturelles du Manitoba est passée au gouvernement provincial, le 1er octobre 1930, le Manitoba et le gouvernement fédéral ont conclu un accord qui permettait à ce dernier de poursuivre les relevés hydrométriques. L'accord a pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 18 février 1975, le gouvernement du Manitoba a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to many organizations.

The names of these organizations are given in the Surface Water Data Reference Index and the annual Surface Water Data publications. The names of agencies who have contributed data for publication are identified herein under individual stations.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées « Stations internationales de jaugeage ».

La Division des relevés hydrologiques du Canada est redevable à maints organismes de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques.

On trouvera les noms des organismes dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Les noms des organismes qui ont fourni des données apparaissent dans la présente publication sous les stations particulières.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2.5900 km^2 (kilomètres carrés)
1 mille carré équivaut à 259.0 ha (hectare)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km^2 (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impériais
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut a 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Equivalents of Measure".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 300 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Équivalences des unités de mesure».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 300 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île du Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule region. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication

presented in the International System of Units (SI) and published every two years. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1983 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* are presented and published in a new format wherein Canada is divided into eight regions. The provinces each represent a separate region except for

pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1983 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

De 1948 à 1960, on avait recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenait un choix de ces données ainsi que d'autres, recueillies en 1961 avant le 30 septembre par des stations établies pour la réalisation du programme permanent. La deuxième publication portait sur les données recueillies dans le cadre du programme, au cours des années hydrologiques 1962 et 1963. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement. À partir de 1978, les données sont fournies dans le Système international d'unités (SI).

En 1984, la présentation des données a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et

New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

EXPLANATION OF HISTORICAL STREAMFLOW SUMMARY PUBLICATION

A. General Description

Descriptive information about a gauging station is given herein below the table of monthly and annual mean discharges. This refers to such items as latitude and longitude, drainage area and whether the flow is natural or regulated (the year that regulation began is given, if known). International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions are explained under "Remarks".

This descriptive information (except the "Remarks" statement) is also given in the Surface Water Data Reference Index and the annual Surface Water Data publications. However, these two publications contain additional information not given herein such as the type of gauge, period of record and other pertinent remarks. Historical streamflow data as contained herein are published by province or region and also in alphabetical order as in the annual Surface Water Data publications. However, the Historical Streamflow Summary publications contain data for both active and discontinued streamflow stations and do not contain any water level data. These publications will be published every two years and will contain data for all streamflow stations for the entire period of record not just the data for the intervening two years.

l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

EXPLICATION DU *SOMMAIRE CHRONOLOGIQUE DE L'ÉCOULEMENT*

A. Description générale

Sous ce titre on trouve les renseignements descriptifs pour une station de relevés de l'écoulement, qui sont fournis après l'extrait des moyennes mensuelles et annuelles. Il s'agit de la latitude et de la longitude, de la superficie du bassin versant, du débit reconnu comme naturel ou régularisé (on indique l'année où la régularisation a débuté, si elle est connue), des stations internationales de jaugeage et des noms des organismes ayant fourni des données ainsi que des précisions sur les conditions spéciales qui prévalaient à la station (elles figurent dans les «Remarques»).

On trouvera également ces renseignements descriptifs (sauf les «Remarques») dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Cependant, ces dernières traitent d'information additionnelles telles que du type de jauge, de la période d'enregistrement et d'autres remarques pertinentes. Les données historiques sur l'écoulement, qui sont contenues dans la présente publication, sont subdivisées en ordre alphabétique selon les provinces ou les territoires comme pour les publications annuelles des *Données sur les eaux de surface*. Par contre, le *Sommaire chronologique de l'écoulement* contient des données non seulement de stations en opération, mais aussi de stations qui ne le sont plus; aucune donnée sur le niveau des eaux n'est toutefois fournie. Cette publication paraîtra tous les deux ans et portera sur les données de toutes les stations de relevés de l'écoulement pour toute la période d'enregistrement plutôt que sur les données qui ne couvrent que les deux années.

B. Method of Tabulation of Data

For gauging stations where systematic streamflow data have been obtained, the following are given for the period of record to 1986 inclusive:

1. Summary of monthly and annual mean discharges;
2. Annual maximum instantaneous discharges;
3. Annual maximum and minimum daily discharges;
4. Identification of the extreme recorded for the period of record;
5. Annual total discharge in cubic decametres.

The following standard symbols are used opposite the daily discharge to which they apply. These symbols will not appear opposite the monthly and annual mean discharges, but will appear with the annual maximum instantaneous value and the annual maximum and minimum daily values, if applicable.

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge during that particular year. A station may have several periods of recording or manual gauges throughout its history. For more details concerning the type of gauge operated during the period of record, the *Surface Water Data Reference Index* should be consulted. This symbol is used during open-water periods only.

B – Ice Conditions – indicates that for a gauging station where discharge data are obtained the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

R – Revised – indicates that a revision, correction or addition has been made to the historical discharge data base after January 1, 1986.

1. *The summary of monthly and annual mean discharge* gives

(a) the monthly mean in cubic metres per second for each month for which there is a complete month of daily discharges. Records of daily discharges for partial months, if obtained, are published in annual publications or are available from the Regional Chief.

(b) the annual mean discharge in cubic metres per second if there are daily discharges for the complete year. In some cases a mean discharge is computed for a standard period within the year, say March to October. This is then computed for all the years for which there are daily discharge records from March to October, if there are also records for other months, say January to October, the mean is given for March to October only.

B. Présentation sous forme de tableaux des données

Pour les stations où on a effectué un relevé systématique de l'écoulement, les données suivantes sont présentées pour la période d'enregistrement allant jusqu'en 1986 inclusivement:

1. Un extrait des moyennes mensuelles et annuelles;
2. Un tableau des valeurs annuelles maximales instantanées;
3. Un tableau des valeurs quotidiennes maximale et minimale annuelles;
4. Un tableau des valeurs extrêmes enregistrées pour toute la période d'observation;
5. Un résumé de l'écoulement annuel total en décamètres cubes.

Les symboles normalisés donnés ci-après sont inscrits à côté des débits quotidiens auxquels ils se rapportent. Les symbols ne sont fournis ni avec les débits moyens mensuels, ni avec les débits moyens annuels, mais ils paraissent avec les valeurs appropriées, c'est-à-dire la valeur instantanée maximale annuelle et les valeurs quotidiennes maximale et minimale annuelles.

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne quotidienne pour l'année en question. Toute station peut comporter diverses périodes où les relevés sont effectués soit à partir d'une jauge enregistreuse, soit à l'aide d'une jauge manuelle. Pour obtenir d'autres renseignements sur le genre de jauge qui a servi lors de la période d'observation, il faut consulter l'*Index de référence des données sur les eaux de surface*. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique, pour les données portant sur le débit, que la présence de glaces à la station de jaugeage a fausse la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

R – Révisé – indique qu'il y a eu révision, correction ou addition à la base des données chronologiques des débits après le 1er janvier 1986.

1. *L'extrait des moyennes mensuelles et annuelles* (The summary of monthly and annual mean discharges) donne

(a) la moyenne mensuelle, exprimée en mètres cubes par seconde, des valeurs quotidienne de l'écoulement pour le mois entier. Pour les stations où on n'a mesuré l'écoulement quotidien que pour une partie du mois, les données paraissent dans les publications annuelles ou peuvent être obtenues du chef régional.

(b) la moyenne annuelle, en mètres cubes par seconde, pour les stations où on a obtenu des relevés quotidiens pour une année entière. Dans certains cas, la moyenne est calculée pour une période bien définie de l'année, par exemple pour mars à octobre. On donne donc la moyenne annuelle des relevés quotidiens effectués pour cette même période de l'année. S'il existe des données pour une autre partie de l'année, telle que pour janvier à octobre, la moyenne n'est toujours fournie que pour la période bien définie de mars à octobre.

(c) the mean of all the monthly means;

(d) the mean of all the annual or standard period means.

2. *The annual maximum instantaneous discharge* in cubic metres per second is given for each year if available. This figure is usually available if the station is equipped with a recording gauge. It may also be estimated from high water marks or from a graph of observed water level readings during the day.

3. *The annual maximum and minimum daily discharges* in cubic metres per second are given for each year where daily discharges have been obtained for the entire year (or standard period within the year, e.g. March to October), or where they are considered to be valid for the year even though some daily discharges are missing.

4. *The extreme recorded for the period of record* is identified by an asterisk within the table of annual maximum instantaneous, maximum daily and minimum daily values.

5. *The annual total discharge* in cubic decametres is given for each year where daily discharges have been obtained for the entire year. If a standard period such as March to October has been selected, the figure applies to only those months, similar to the mean discharge in cubic metres per second.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway; for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Revisions, corrections or additions made to the discharges and water levels after January 1, 1986 are indicated by an "R" symbol in the summary publications. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

(c) la moyenne de toutes les moyennes mensuelles;

(d) la moyenne de toutes les moyennes annuelles ou de toutes les moyennes pour une période bien définie.

2. *Le tableau des valeurs annuelles maximales instantanées* (The annual maximum instantaneous discharge) exprimées en mètres cubes par seconde, est fourni pour toute année où des données sont disponibles. La majorité des stations munies de jauges enregistreuses détiennent ces données. Elles peuvent également être évaluées à partir du niveau des hautes eaux ou d'un graphique illustrant le niveau quotidien.

3. *Le tableau des valeurs quotidiennes minimale et maximale annuelles* (The annual maximum and minimum daily discharges), exprimées en mètres cubes par seconde, donne les valeurs pour les stations où on a fait des relevés quotidiens pour une année entière ou pour une période bien définie de l'année, par exemple pour mars à octobre, ou lorsqu'on considère que les valeurs sont valables pour toute l'année même si quelques débits quotidiens ne sont pas disponibles.

4. *Le tableau des valeurs extrêmes enregistrées pour toute la période d'observation* (The extreme recorded for the period of record) est indiqué par un astérisque et est compris avec les valeurs annuelles maximales instantanées et les valeurs quotidiennes minimale et maximale annuelles.

5. *Le résumé de l'écoulement annuel total* (The annual total discharge), en décamètres cubes, est indiqué pour les stations où on a fait des relevés quotidiens pour une année entière. Si on a choisi une période bien définie de l'année, par exemple de mars à octobre, la valeur n'a trait qu'à ces mois, tout comme la moyenne mensuelle, en mètres cubes par seconde.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans *l'Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées aux débits et aux niveaux d'eau après le 1er janvier 1986 sont accompagnées du symbole «R» dans les publications sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon

(1) The type of gauge, stability of gauge, accuracy of observation of stage and measurement of reference datum,

(2) The stability of the stage-discharge relationship, or if the control is unstable, the frequency and accuracy of discharge measurements, and

(3) The computation procedures and interpretation of records.

Because of all these variable factors, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data. The Water Resources Branch standard for storing water level data is to three decimal points (0.001 m), although some contributing agencies provide data to two decimal points (0.01 m).

A measure of the reliability of the records can be made by an examination of the distribution of the symbols A, E and B (for discharge data).

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

MICROFICHE

All published daily discharge, water level and sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by province. There are 270 frames per microfiche at 48X reduction. there is a visible heading showing the fiche number, type of data, province, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur

(1) Le type de jauge, la stabilité de la gauge, la précision des observations sur les niveaux et de la mesure de la donnée de référence,

(2) La stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence et la précision des mesures de débits, et

(3) L'évaluation des procédés et l'interprétation des chiffres.

A cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données. Dans la Direction des ressources en eau, les normes de cueillette des données sur le niveau des eaux sont de l'ordre de trois décimales (0.001 m), alors que certains organismes dans ce domaine n'exigent que deux décimales (0.01 m).

L'exactitude des données peut être appréciée par l'examen de la répartition des symboles A, E et B (pour les données de débits).

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

MICROFICHE

Toutes les données publiées concernant les débits quotidiens, les niveaux d'eau et les sédiments sont disponibles sur microfiche en unités métriques aux usagers qui en font la demande. Ces données sont emmagasinées par ordre de numéro de station et par province. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la province, le numéro de la première et de la dernière station, celui de la première et de la dernière année de cueillette ainsi que le mois et l'année de préparation de la fiche. La dernière image donne l'index du contenu de la fiche.

STREAMFLOW DATA/DONNÉES SUR L'ÉCOULEMENT

ANGLE DRAIN NEAR GLENELLA - STATION NO. 05LL026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	7.79	6.62	0.696	0.041	0	0	0	---	---	1.88	1974
1975	---	---	0	1.41	1.41	0.762	0.058	2.15	13.3	3.53	---	---	2.80	1975
1976	---	---	0.113	20.8	1.60	0.514	0.146	0	0	0	---	---	2.84	1976
1977	---	---	0.002	0.208	0.222	0.052	0.069	0	0.220	0.117	---	---	0.111	1977
1978	---	---	0	1.46	0.680	0.137	0.018	0	0.031	0.040	---	---	0.293	1978
1979	---	---	0	7.59	10.1	1.07	0.073	0.001	0	0	---	---	2.35	1979
1980	---	---	0	0.580	0.049	0	0	1.26	0.850	0.316	---	---	0.381	1980
1981	---	---	0.283	0.279	0.285	0.354	0.101	0.047	0.005	0.093	---	---	0.183	1981
1982	---	---	0.008	3.16	0.956	0.229	1.26	0.134	0	0.104	---	---	0.727	1982
1983	---	---	0.001	5.81	2.11	0.589	0.204	0	0	0	---	---	1.05	1983
1984	---	---	0.062	0.387	0.492	0.763	0.108	0	0	0.139	---	---	0.242	1984
1985	---	---	0.037	2.69	0.363	0.283	0.172	0.361	0.211	0.308	---	---	0.547	1985
1986	---	---	0.456	3.72	10.7	0.393	0.352	0.107	0.021	0.128	---	---	2.00	1986
MEAN	---	---	0.075	4.28	2.74	0.448	0.200	0.315	1.13	0.367	---	---	1.18	MEAN

LOCATION - LAT 50 33 37 N
LONG 99 09 23 W NATURAL FLOW

REMARKS - PUBLISHED AS GLENELLA DRAIN PRIOR TO 1986

ANGLE DRAIN NEAR GLENELLA - STATION NO. 05LL026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	31.7 ON APR 21	0B ON MAR 1 *	39 800	1974
1975	45.9 AT 16:25 CST ON SEP 22 *	43.9 ON SEP 22	0B ON MAR 1	59 300	1975
1976	---	51.5 ON APR 9 *	0 ON JUL 31	60 100	1976
1977	---	1.97 ON SEP 26	0B ON MAR 1	2 340	1977
1978	---	4.13 ON APR 25	0B ON MAR 1	6 210	1978
1979	---	33.7 B ON APR 26	0B ON MAR 1	49 700	1979
1980	---	9.76 ON AUG 21	0B ON MAR 1	8 050	1980
1981	0.867 AT 00:00 CST ON APR 2	0.819B ON MAR 31	0B ON MAR 1	3 880	1981
1982	---	8.62 B ON APR 16	0B ON MAR 1	15 400	1982
1983	12.4 B AT 18:40 CST ON APR 10	11.1 ON APR 21	0B ON MAR 1	22 200	1983
1984	6.42 AT 18:21 CST ON JUN 23	4.82 ON JUN 24	0B ON MAR 1	5 130	1984
1985	6.06 B AT 19:53 CST ON APR 2	5.12 ON APR 10	0B ON MAR 1	11 600	1985
1986	31.2 AT 14:52 CST ON MAY 6	30.4 ON MAY 6	0B ON MAR 1	42 300	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		25 100	MEAN

ANGLING RIVER NEAR BIRD - STATION NO. 05UH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	0.839	0.855	0.508	0.503	17.3	32.9	24.3	13.2	10.8	15.8	7.38	3.67	10.7	1979
1980	1.25	0.828	0.842	17.7	29.2	24.0	32.4	27.7	30.3	18.5	8.28	3.21	16.1	1980
1981	1.88	1.16	0.733	0.668	46.3	30.0	12.6	16.3	5.98	15.4	6.98	2.80	12.2	1981
1982	1.32	0.935	0.781	0.804	45.4	15.5	7.07	8.85	10.6	14.4	5.90	3.18	8.65	1982
1983	2.06	1.59	1.29	1.11	26.8	123	7.42	14.0	37.9	21.8	10.0	5.06	20.9	1983
1984	3.14	1.89	1.26	---	---	26.5	6.07	2.19	1.43	2.75	2.16	1.36	---	1984
1985	0.890	0.851	0.527	---	---	44.8	19.4	2.76	1.49	4.07	2.05	1.02	---	1985
1986	0.636	0.461	0.388	0.311	62.6	20.9	18.7	30.4	13.5	9.41	5.01	2.58	13.9	1986
MEAN	1.50	1.03	0.789	3.52	37.9	39.7	16.0	14.4	14.0	13.3	5.72	2.86	13.9	MEAN

LOCATION - LAT 56 40 39 N DRAINAGE AREA, 1 630 km^2
LONG 93 38 20 W NATURAL FLOW

ANGLING RIVER NEAR BIRD - STATION NO. 05UH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	48.5 ON JUN 4	0.4008 ON APR 13	337 000	1979
1980	89.4 AT 22:34 CST ON APR 25	68.5 ON APR 25	0.8008 ON FEB 13	508 000	1980
1981	---	116 B ON MAY 21	0.6558 ON MAY 12	384 000	1981
1982	---	89.5B ON MAY 8	0.7128 ON APR 24	305 000	1982
1983	313 AT 18:00 CST ON JUN 2 *	307 ON JUN 2 *	1.02 B ON MAY 17	650 000	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	---	152 A ON MAY 16	0.2988 ON MAY 2 *	438 000	1986
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		439 000	MEAN

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.001	---	---	---	1935
1936	---	---	---	---	0.323	0.038	---	---	---	---	---	---	---	1936
1938	---	---	---	0.029	0.002	---	---	---	---	---	---	---	---	1938
1943	---	---	0	11.3	0.917	1.49	0.464	0.061	0.022	0.008	---	---	---	1943
1944	---	---	0	0.259	0.137	0.629	1.37	0.259	0.104	0.019	---	---	---	1944
1945	---	---	0.325	0.534	0.132	0.181	0.374	0.058	0.002	0	---	---	---	1945
1946	---	---	2.45	6.46	0.323	0.106	0.047	0.001	0	0	---	---	---	1946
1947	---	---	0	7.20	0.619	3.36	3.83	0.275	0.033	0.005	---	---	---	1947
1948	---	---	0	11.6	8.23	0.898	0.522	0.488	0.054	0.013	---	---	---	1948
1949	---	---	0	9.93	0.815	3.58	0.266	0.135	0.011	0.017	0.023	---	---	1949
1950	---	---	0.831	7.18	3.50	1.54	1.53	3.37	0.539	0.731	---	---	---	1950
1951	---	---	0	12.4	10.0	1.17	0.272	0.334	0.110	0.047	---	---	---	1951
1952	---	---	0.022	3.15	0.124	0.010	0.058	0	0	0.003	---	---	---	1952
1953	---	---	0.015	2.84	0.388	2.21	0.876	0.056	0	0.099	0.286	---	---	1953
1954	---	---	0	0.400	0.278	4.54	3.91	0.286	0.327	0.552	0.650	---	---	1954
1955	---	---	0	15.6	8.03	2.89	1.47	0.278	0.102	0.131	---	---	---	1955
1956	---	---	0.002	11.5	2.40	0.467	0.218	0.020	0	0.005	---	---	---	1956
1957	---	---	0.609	1.63	0.351	0.225	0.004	0	0	0	---	---	---	957
1958	---	---	0.595	4.68	0.232	0	0	0	0	0	---	---	---	1958
1959	---	---	0.370	0.177	0.018	0.001	0	0	0	0.002	---	---	---	1959
1960	---	---	0.016	5.99	0.227	0.070	0.001	0	0	0	---	---	---	1960
1961	---	---	0.005	0.002	0.003	0	0	0	0	0	---	---	---	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	---	1962
1963	---	---	0	0	0	0.788	0.048	0.147	0.821	0.055	---	---	---	1963
1964	---	---	0	4.10	2.18	0.369	0.188	0.027	0.004	0.003	---	---	---	1964
1965	---	---	0	1.75	0.676	0.403	0.086	0.011	0.007	0.030	---	---	---	1965
1966	---	---	1.29	3.00	1.52	0.345	0.121	0.006	0	0	---	---	---	1966
1967	---	---	0.010	0.384	0.250	0.048	0.003	0	0	0	---	---	---	1967
1968	---	---	0.203	0.183	0.011	0	0.012	0.015	0.005	0	---	---	---	1968
1969	---	---	0	29.7	2.18	0.592	2.59	0.551	0.035	0.091	---	---	---	1969
1970	---	---	0.045	5.06	9.86	1.04	0.292	0.181	0.014	0.126	---	---	---	1970
1971	---	---	0.010	1.63	0.445	1.17	0.381	0.006	0.001	0.006	---	---	---	1971
1972	---	---	5.88	4.11	0.743	0.935	0.324	0.200	0.048	0.011	---	---	---	1972
1973	---	---	0.487	0.246	0.198	0.474	0.061	0.003	0	0.001	---	---	---	1973
1974	---	---	0	20.2	5.68	1.94	0.448	0.086	0.002	0.004	---	---	---	19
1975	---	---	0.006	9.14	14.4	4.23	0.973	0.525	1.55	2.75	---	---	---	75
1976	---	---	0.293	63.3	5.85	1.76	0.612	0.123	0.010	0.012	---	---	---	1976
1977	---	---	0.014	0.089	0.132	0.010	0	0	0	0	0	0	---	1977
1978	0	0	0.002	1.08	0.101	0	0	0	0	0	0	0	0.095	1978
1979	0	0	0	7.39	2.64	0.414	0.086	0.035	0.007	0	0	0	0.877	1979
1980	0	0	0	0.084	0.089	0	0	0	0	0	0	0	0.013	1980
1981	0	0.228	0.352	0.023	0.001	0	0	0	0	0	0	0	0.049	1981
1982	0	0	0	5.23	0.734	0.204	0.117	0.001	0	0	0	0	0.519	1982
1983	0	0	0.051	6.27	1.14	0.195	0.079	0	0	0	0	0	0.639	1983
1984	0	0	0.001	0.205	0.185	0.018	0	0	0	0	0	0	0.032	1984
1985	0	0	2.92	1.77	0.272	0.033	0	2.41	1.97	1.84	0.700	0.191	0.982	1985
1986	0.094	0.088	3.85	1.46	2.79	0.318	1.03	0.858	0.023	0.053	0.077	0.058	0.868	1986
MEAN	0.010	0.033	0.485	5.21	1.93	0.850	0.510	0.241	0.127	0.138	0.134	0.025	0.453	MEAN

LOCATION - LAT 49 03 34 N DRAINAGE AREA 3 230 km²
LONG 101 02 56 W NATURAL FLOW

REMARKS - MONTHLY MEAN NATURAL FLOWS FOR THE PERIOD 1912-77 HAVE BEEN COMPUTED BY THE PRAIRIE PROVINCES WATER BOARD

ANTLER RIVER NEAR MELITA - STATION NO 05NF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)		MINIMUM DAILY DISCHARGE (m^3/s)		TOTAL DISCHARGE (dam^3)	YEAR
1935	---		---		0	ON SEP 26 *	---	1935
1936	---		---		---		---	1936
1938	---		---		0	ON MAY 15	---	1938
1943	---		47.3	ON APR 9	0B	ON MAR 1	---	1943
1944	---		4.58	ON JUL 2	0B	ON MAR 1	---	1944
1945	---		3.23 B	ON MAR 29	0B	ON MAR 1	---	1945
1946	---		41.3 B	ON MAR 31	0B	ON MAR 1	---	1946
1947	---		29.7	ON JUN 29	0B	ON MAR 1	---	1947
1948	---		73.9	ON APR 26	0B	ON MAR 1	---	1948
1949	---		59.5	ON APR 14	0B	ON MAR 1	---	1949
1950	---		15.7 B	ON APR 21	0B	ON MAR 1	---	1950
1951	---		34.5	ON APR 14	0B	ON MAR 1	---	1951
1952	---		8.58 B	ON APR 5	0B	ON MAR 1	---	1952
1953	---		9.97 B	ON APR 7	0B	ON MAR 1	---	1953
1954	---		12.0	ON JUN 21	0B	ON MAR 1	---	1954
1955	---		58.9	ON APR 9	0B	ON MAR 1	---	1955
1956	---		30.6	ON APR 15	0B	ON MAR 1	---	1956
1957	---		6.71 B	ON MAR 30	0B	ON MAR 1	---	1957
1958	---		17.7	ON APR 4	0B	ON MAR 1	---	1958
1959	---		2.07	ON MAR 30	0B	ON MAR 1	---	1959
1960	---		21.5	ON APR 7	0B	ON MAR 1	---	1960
1961	---		0.028	ON MAR 20	0	ON MAR 1	---	1961
1962	---		0	ON MAR 1	0	ON MAR 1	---	1962
1963	---		2.85	ON JUN 9	0	ON MAR 1	---	1963
1964	---		9.91 B	ON APR 8	0B	ON MAR 1	---	1964
1965	---		6.88 B	ON APR 17	0B	ON MAR 1	---	1965
1966	---		8.64 B	ON APR 8	0B	ON MAR 1	---	1966
1967	---		0.708	ON APR 21	0B	ON MAR 1	---	1967
1968	---		0.8788	ON APR 3	0B	ON MAR 1	---	1968
1969	---		106	ON APR 17	0B	ON MAR 1	---	1969
1970	---		27.2	ON MAY 5	0B	ON MAR 1	---	1970
1971	---		4.53 B	ON APR 13	0	ON AUG 22	---	1971
1972	---		22.7 B	ON MAR 25	0B	ON MAR 1	---	1972
1973	---		1.27 B	ON MAR 25	0B	ON MAR 1	---	1973
1974	---		73.6 B	ON APR 20	0B	ON MAR 1	---	1974
1975	82.3	AT 18 55 CST ON MAY 3	51.7	ON MAY 3	---		---	1975
1976	119	AT 08 27 CST ON APR 14 *	118	ON APR 14 *	0	ON AUG 30	---	1976
1977	---		0.215	ON MAY 17	0B	ON MAR 1	---	1977
1978	---		3.71 B	ON APR 4	0B	ON JAN 1	3 030	1978
1979	42.4	AT 01 28 CST ON APR 25	39.8	ON APR 25	0B	ON JAN 1	27 700	1979
1980	0.553	AT 17 56 CST ON APR 18	0.396	ON APR 18	0B	ON JAN 1	402	1980
1981	---		2.85 B	ON FEB 27	0B	ON JAN 1	1 550	1981
1982	28.1	AT 05 32 CST ON APR 18	26.9	ON APR 18	0B	ON JAN 1	18 400	1982
1983	13.8	AT 07 27 CST ON APR 27	13.5	ON APR 27	0B	ON JAN 1	20 100	1983
1984	0.6888	AT 07 08 CST ON APR 3	0.4378	ON APR 3	0B	ON JAN 1	1 020	1984
1985	11.2 B	AT 08 39 CST ON MAR 23	10.6 B	ON MAR 23	0B	ON JAN 1	31 000	1985
1986	7.02	AT 03 11 CST ON MAY 14	6.91	ON MAY 14	0	ON SEP 12	27 400	1986
							14 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ARROW RIVER NEAR ARROW RIVER - STATION NO 05MG001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.389	0.132	0.052	0.014	0	0	0	0.059	---	---	0.081	1959
1960	---	---	0	2.02	0.190	0.141	0	0	0	0	---	---	0.288	1960
1961	---	---	0.044	0.120	0.067	0.010	0	0	0	0	---	---	0.030	1961
1962	---	---	0	0.596	0.056	0.032	0	0	0	0	---	---	0.102	1962
1963	---	---	0.886	0.635	0.099	0.173	0.016	0.085	0.008	0.052	---	---	0.228	1963
1964	---	---	0	1.93	0.274	0.030	0.038	0.013	0.015	0.012	---	---	0.284	1964
1965	---	---	0	1.52	0.133	0.088	0.005	0.005	0.004	0.029	---	---	0.234	1965
1966	---	---	0.200	0.814	0.300	0.045	0.005	0	0.137	0.043	---	---	0.150	1966
1967	---	---	0.012	3.21	0.847	0.030	0	0.031	0.001	0.013	---	---	0.506	1967
1968	---	---	0.814	0.531	0.057	0.010	0.037	0.034	0	0.005	---	---	0.187	1968
1969	---	---	0	5.41	0.249	0.046	0.132	0.002	0.027	0.087	---	---	0.725	1969
1970	---	---	0	1.80	0.868	0.096	0.007	0	0.013	0.052	---	---	0.336	1970
1971	---	---	0.007	0.888	0.098	0.680	0.442	0.010	0.071	0.078	---	---	0.255	1971
1972	---	---	0.803	2.37	0.455	0.033	0.001	0.010	0.010	0.124	---	---	0.432	1972
1973	---	---	0.133	0.062	0.051	0.028	0.022	0.008	0	0.013	---	---	0.048	1973
1974	---	---	0	4.09	0.838	0.065	0.006	0	0.025	0.054	---	---	0.815	1974
1975	---	---	0	1.85	0.883	0.332	0.033	0.087	0.002	0.004	---	---	0.410	1975
1976	---	---	0	5.71	0.478	0.119	0.025	0	0.188	0.148	---	---	0.782	1976
1977	---	---	0.087	0.228	0.134	0.134	0.040	0	0.002	0.040	---	---	0.080	1977
1978	---	---	0.144	0.856	0.152	0.084	0.147	0.004	0.005	0.028	---	---	0.152	1978
1979	---	---	0.003	3.16	1.60	0.155	0.006	0	0.022	0.040	---	---	0.810	1979
1980	---	---	0.010	0.418	0.013	0	0.026	0.088	0	0	---	---	0.076	1980
1981	---	0.221	0.047	0.085	0.086	0.072	0.011	0.011	0.021	0.058	---	---	0.048	1981
1982	---	---	0.447	1.82	0.111	0.077	0.048	0	0.045	0.089	---	---	0.318	1982
1983	---	---	0	2.45	0.781	0.050	0.038	0	0.001	0.087	---	---	0.408	1983
1984	---	---	0.148	0.090	0.047	0.026	0.001	0	0	0	---	---	0.040	1984
1985	---	---	0.828	1.15	0.054	0.013	0.003	0.050	0	0.006	---	---	0.257	1985
1986	---	---	0.872	3.41	1.04	0.098	0.047	0	0.098	0.070	---	---	0.885	1986
									0.001	0.059	---	---		
MEAN	---	0.221	0.194	1.85	0.358	0.094	0.041	0.014	0.025	0.042	---	---	0.289	MEAN

LOCATION - LAT 50 05 10 N DRAINAGE AREA, 870 km^2
LONG 100 57 30 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM DAILY DISCHARGE OF 0.712 m^3/s OCCURRED IN FEB

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.48 B ON MAR 21	0B ON MAR 1 *	1 720	1959
1960	---	6.17 ON APR 14	0B ON MAR 1	6 100	1960
1961	---	0.425B ON MAR 29	0B ON MAR 1	632	1961
1962	---	2.66 ON APR 18	0B ON MAR 1	2 160	1962
1963	---	5.15 B ON MAR 27	0B ON MAR 1	4 830	1963
1964	---	6.20 ON APR 15	0B ON MAR 1	6 010	1964
1965	---	8.41 B ON APR 13	0B ON MAR 1	4 940	1965
1966	---	1.81 B ON APR 1	0B ON MAR 1	3 180	1966
1967	---	7.22 B ON APR 12	0B ON MAR 1	10 700	1967
1968	---	5.52 B ON MAR 27	0B ON MAR 1	4 180	1968
1969	---	30.0 ON APR 11 *	0B ON MAR 1	15 300	1969
1970	---	4.93 B ON APR 10	0B ON MAR 1	7 110	1970
1971	---	2.70 B ON APR 7	0 ON MAR 1	5 380	1971
1972	---	4.25 ON APR 12	0B ON MAR 1	8 130	1972
1973	---	0.436B ON MAR 18	0B ON MAR 1	1 010	1973
1974	15.7 AT 15:00 CST ON APR 18 *	14.3 ON APR 18	0B ON MAR 1	13 000	1974
1975	5.06 AT 00:05 CST ON APR 29	5.49 ON APR 29	0B ON MAR 1	8 870	1975
1976	---	17.6 B ON APR 10	0B ON MAR 1	16 600	1976
1977	1.35 B AT 16:11 CST ON APR 3	0.883 ON MAY 19	0B ON MAR 1	1 690	1977
1978	2.50 B AT 13:46 CST ON APR 1	1.75 B ON MAR 31	0B ON MAR 1	3 230	1978
1979	---	19.3 B ON APR 21	0 ON JUL 9	12 900	1979
1980	---	1.57 B ON APR 3	0B ON MAR 1	1 800	1980
1981	---	0.248 ON SEP 1	0 ON JUL 11	1 010	1981
1982	---	5.13 B ON APR 11	0B ON MAR 1	6 730	1982
1983	---	8.13 B ON APR 10	0B ON MAR 1	8 630	1983
1984	0.631B AT 12:57 CST ON MAR 22	0.578B ON MAR 24	0B ON MAR 1	842	1984
1985	4.03 B AT 00:20 CST ON APR 5	2.70 B ON APR 5	0B ON MAR 1	5 430	1985
1986	8.91 B AT 19:01 CST ON APR 1	7.14 ON APR 2	0B ON MAR 1	14 500	1986
				6 330	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ARROW RIVER NEAR KELLOE - STATION NO. 05MG009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1966
1967	---	---	0	0.010	0	0	0	0	0	0	---	---	0.001	1967
1968	---	---	0.004	0	0	0	0	0	0	0	---	---	0.001	1968
1969	---	---	0	0.006	0	0	0	0	0	0	---	---	0.001	1969
1970	---	---	0	0.006	0.001	0	0	0	0	0	---	---	0.001	1970
1971	---	---	0	0.009	0	0	0	0	0	0	---	---	0.001	1971
1972	---	---	0	0.023	0.012	0	0	0	0	0	---	---	0.004	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.024	0.002	0	0	0	0	0	---	---	0.003	1974
1975	---	---	0	0.005	0	0	0	0	0	0	---	---	0.001	1975
MEAN	---	---	0.001	0.008	0.002	0	0	0	0	0	---	---	0.001	MEAN

LOCATION - LAT 50 25 05 N LONG 100 49 02 W DRAINAGE AREA, 4.25 km^2 NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

ARROW RIVER NEAR KELLOE - STATION NO. 05MG009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	0.010B ON MAR 30	0B ON MAR 1 *	4 06	1966
1967	---	0.085B ON APR 14	0B ON MAR 1	25.9	1967
1968	---	0.051B ON MAR 28	0B ON MAR 1	12 7	1968
1969	---	0.040B ON APR 9	0B ON MAR 1	14.5	1969
1970	---	0.022B ON APR 13	0B ON MAR 1	16.0	1970
1971	---	0.082B ON APR 7	0B ON MAR 1	22 8	1971
1972	---	0.076 ON APR 24	0B ON MAR 1	92.7	1972
1973	---	0 B ON MAR 1	0B ON MAR 1	0	1973
1974	---	0.354B ON APR 17 *	0B ON MAR 1	55 4	1974
1975	---	0.048B ON APR 14	0B ON MAR 1	14.7	1975
				27.0	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER AT BRANDON - STATION NO. 05MH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1906	---	---	---	14.2	14.7	21.4	17.7	5.46	22.8	20.8	14.2	---	---	1906
1907	---	---	---	84.9	123	139	123	80.0	90.8	78.0	51.0	---	---	1907
1908	---	---	---	85.1	105	58.5	93.3	38.0	27.9	32.1	28.4	---	---	1908
1909	---	---	---	85.0	107	48.6	49.5	75.8	34.3	28.9	22.7	---	---	1909
1910	---	---	---	55.7	34.8	82.7	66.1	28.7	19.4	15.3	14.2	---	---	1910
1911	---	---	---	42.6	58.5	84.7	53.3	30.7	27.2	38.6	19.8	---	---	1911
1912	---	---	---	99.1	182	130	60.5	46.2	87.7	101	52.2	28.9	---	1912
1913	12.0	10.8	11.4	178	288	98.1	116	102	45.7	29.3	19.8	11.9	77.4	1913
1914	6.45	5.51	11.1	61.7	152	68.1	21.9	7.84	5.34	6.54	7.09	4.81	30.0	1914
1915	1.48	2.57	3.42	27.2	16.4	13.0	16.0	10.1	6.97	6.45	5.74	4.39	9.49	1915
1916	2.48	2.59	2.58	119	72.1	84.5	90.3	24.6	13.8	17.0	18.4	10.3	39.0	1916
1917	4.88	3.98	4.41	53.3	172	72.2	62.4	20.1	11.1	7.47	7.93	4.53	35.6	1917
1918	2.27	2.59	6.47	51.7	26.6	29.2	22.8	10.6	9.58	8.21	7.00	4.06	15.3	1918
1919	3.40	2.87	2.51	83.1	34.6	17.3	32.2	9.09	8.17	9.72	8.23	4.06	17.8	1919
1920	4.25	4.28	8.06	57.3	195	70.0	22.1	12.3	6.98	6.80	11.5	6.80	33.7	1920
1921	4.24	3.36	4.38	104	124	89.5	104	41.9	26.5	50.8	56.4	24.6	53.1	1921
1922	12.2	7.28	10.4	130	432	228	86.8	31.9	21.9	16.1	17.2	10.9	82.8	1922
1923	7.27	5.19	6.03	126	412	122	128	75.4	35.5	27.3	22.3	16.1	82.7	1923
1924	8.93	8.35	8.95	62.6	95.2	50.3	38.6	22.5	15.7	19.7	15.5	9.64	29.7	1924
1925	5.99	5.05	22.0	231	137	86.3	57.6	18.5	11.7	13.0	8.59	6.46	50.4	1925
1926	3.62	2.88	6.08	55.0	41.0	27.0	15.1	7.73	13.9	19.5	14.2	9.81	18.0	1926
1927	5.93	4.64	7.06	140	369	158	86.9	48.9	37.3	40.6	21.8	11.3	78.1	1927
1928	8.89	7.08	19.8	148	101	82.3	87.9	28.9	14.8	12.8	12.9	4.84	44.1	1928
1929	3.78	4.13	6.41	37.3	45.6	28.1	13.6	8.22	4.78	5.28	5.47	4.98	13.8	1929
1930	2.81	2.38	4.19	57.9	37.4	21.4	15.2	5.37	2.84	4.40	3.45	2.42	13.3	1930
1931	2.37	2.29	5.03	19.3	10.8	7.38	5.88	4.18	4.03	4.39	3.88	1.98	5.95	1931
1932	1.53	1.70	2.32	37.4	25.1	10.6	10.7	5.32	4.95	5.48	5.38	3.74	9.50	1932
1933	2.97	2.72	3.17	76.7	40.2	48.8	24.9	5.02	4.81	5.68	5.86	4.25	18.8	1933
1934	2.97	3.40	17.0	76.5	48.8	18.4	8.86	2.87	3.10	4.12	4.23	2.83	16.1	1934
1935	2.17	2.45	4.00	35.9	23.7	27.2	95.5	21.3	11.7	9.97	6.45	4.48	20.5	1935
1936	3.96	2.76	2.43	150	122	40.7	19.9	7.32	4.27	4.83	3.86	2.70	30.3	1936
1937	1.93	1.73	2.39	20.8	20.8	17.3	5.28	2.21	1.44	3.80	3.03	0.881	6.77	1937
1938	1.42	1.79	20.9	56.3	27.5	13.0	8.08	5.71	3.20	3.46	3.07	2.31	12.2	1938
1939	2.09	1.75	8.73	31.4	18.4	9.91	10.6	5.47	3.09	3.47	3.88	2.83	8.48	1939
1940	0.828	0.853	1.03	7.87	11.0	6.29	3.98	3.09	2.13	2.57	3.03	1.98	3.70	1940
1941	2.06	2.08	2.13	41.6	22.1	11.0	3.85	2.13	3.86	3.62	3.51	2.30	8.33	1941
1942	1.11	0.805	11.5	112	36.8	33.3	17.3	18.5	21.5	13.4	6.88	2.43	22.9	1942
1943	3.06	1.82	3.59	141	81.7	81.5	37.5	14.7	9.58	7.45	6.84	4.06	33.8	1943
1944	1.29	1.56	1.89	16.9	17.2	29.2	42.5	11.0	9.04	8.41	6.85	3.00	12.4	1944
1945	1.12	1.99	10.2	51.1	42.4	25.8	24.2	10.2	6.00	7.74	5.70	2.70	15.9	1945
1946	1.78	1.98	19.0	119	36.1	14.7	35.5	9.29	4.81	13.3	13.6	4.40	22.8	1946
1947	2.18	2.38	2.82	106	176	82.7	192	29.9	17.4	17.4	11.3	8.48	54.5	1947
1948	6.89	5.77	5.34	76.9	349	105	50.5	36.7	13.1	8.74	9.12	8.05	58.5	1948
1949	3.87	1.07	1.59	76.8	23.9	54.7	18.4	15.5	7.07	6.86	9.40	4.60	18.8	1949
1950	2.87	2.88	5.51	64.0	101	83.4	74.4	44.2	15.0	15.5	13.7	8.83	34.3	1950
1951	5.33	4.36	4.84	123	132	43.3	25.7	12.4	15.7	23.0	17.9	7.44	34.8	1951
1952	3.70	3.29	4.27	82.8	53.6	24.4	14.9	8.84	17.0	8.83	5.93	3.89	19.0	1952
1953	2.79	3.21	3.77	105	81.8	112	115	78.7	37.0	24.3	25.6	12.7	50.4	1953
1954	8.72	7.22	9.85	66.6	135	185	262	87.9	48.7	72.8	46.5	31.1	79.0	1954
1955	15.6	16.8	13.7	238	371	241	119	61.5	35.1	30.7	25.0	18.1	99.0	1955
1956	13.2	12.5	13.6	120	389	282	142	57.3	35.4	21.7	21.2	13.6	90.3	1956
1957	10.8	7.28	21.1	115	209	58.6	25.4	13.0	9.77	10.6	12.2	6.24	41.7	1957
1958	4.20	4.87	11.0	59.4	24.6	10.9	8.15	3.55	3.42	5.81	5.76	2.86	12.0	1958
1959	1.54	1.45	7.39	40.5	23.9	13.9	14.6	4.96	4.38	7.51	8.33	7.30	11.3	1959
1960	5.43	4.57	3.83	132	115	60.8	24.2	6.72	3.42	3.11	3.47	2.42	30.3	1960
1961	2.86	1.85	3.57	16.3	10.7	4.09	1.87	0.929	1.22	1.81	2.00	1.18	4.04	1961
1962	1.34	1.26	2.29	33.7	40.3	10.8	5.10	8.33	3.34	4.53	4.18	2.06	9.64	1962
1963	1.66	1.16	12.7	48.1	20.7	39.9	18.3	9.86	6.45	6.09	4.47	3.28	14.4	1963
1964	2.83	3.47	4.97	56.6	55.1	15.1	7.46	4.22	3.77	4.07	4.67	2.85	13.7	1964
1965	2.99	3.98	4.15	103	67.4	51.6	30.0	12.3	15.2	15.2	7.32	8.89	25.8	1965
1966	7.90	6.56	7.27	97.0	112	38.8	27.9	13.4	8.61	4.58	3.92	3.88	27.5	1966
1967	5.14	5.71	5.82	89.9	123	42.1	10.1	4.11	2.19	4.01	6.34	5.56	23.7	1967
1968	4.50	4.77	13.0	81.5	20.0	10.6	6.29	10.6	8.13	5.15	4.55	3.17	12.6	1968
1969	3.58	4.80	4.88	170	79.8	36.8	48.5	16.5	8.33	11.9	13.1	13.1	34.3	1969
1970	10.9	11.2	12.1	77.6	180	74.3	49.9	28.5	13.9	14.7	21.7	14.1	42.6	1970
1971	12.0	11.0	12.6	62.0	65.7	77.4	46.9	22.5	8.40	19.5	28.6	21.9	32.3	1971
1972	21.2	21.0	36.0	120	131	87.8	16.7	6.29	6.83	10.0	14.2	17.7	39.0	1972
1973	16.3	14.0	14.7	14.1	9.28	11.2	9.89	5.57	9.14	17.5	14.5	13.5	12.6	1973
MEAN	5.20	4.89	8.21	81.1	104	59.9	46.8	22.4	15.5	16.1	13.1	7.57	31.1	MEAN

LOCATION - LAT 49 51 02 N DRAINAGE AREA, 86 000 km²
LONG 99 56 12 W REGULATED

ASSINIBOINE RIVER AT BRANDON - STATION NO 05MH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1906	---	37.4 ON SEP 29	---	---	1906
1907	---	212 ON MAY 2	---	---	1907
1908	---	159 ON JUL 1	---	---	1908
1909	---	119 ON MAY 13	---	---	1909
1910	---	103 ON JUL 5	---	---	1910
1911	---	105 ON JUN 8	---	---	1911
1912	---	202 ON MAY 21	---	---	1912
1913	---	422 ON MAY 1	10.8 RB ON FEB 8	2 440 000	1913
1914	---	186 ON MAY 30	3.00 B ON DEC 30	947 000	1914
1915	---	89.7 ON APR 18	1.05 B ON JAN 13	299 000	1915
1916	---	259 ON APR 19	1.95 RB ON JAN 8	1 230 000	1916
1917	---	184 ON MAY 25	2.55 B ON DEC 26	1 120 000	1917
1918	---	76.7 ON APR 7	1.98 B ON JAN 28	481 000	1918
1919	---	151 B ON APR 15	2.41 B ON MAR 17	561 000	1919
1920	---	217 ON MAY 19	3.37 B ON JAN 1	1 070 000	1920
1921	---	146 ON APR 27	3.06 B ON FEB 25	670 000	1921
1922	---	603 ON MAY 6	6.80 B ON MAR 11	2 800 000	1922
1923	---	651 ON MAY 7 *	5.15 B ON FEB 16	2 610 000	1923
1924	---	134 ON MAY 1	7.42 B ON DEC 31	938 000	1924
1925	---	256 ON APR 5	4.81 B ON DEC 31	1 590 000	1925
1926	---	112 ON APR 26	2.83 B ON JAN 21	569 000	1926
1927	---	484 ON MAY 5	4.50 B ON FEB 21	2 460 000	1927
1928	---	229 ON APR 13	3.95 B ON DEC 30	1 390 000	1928
1929	---	116 ON MAY 1	3.54 B ON DEC 31	435 000	1929
1930	---	98.5 ON APR 16	1.98 B ON FEB 8	419 000	1930
1931	---	39.4 ON APR 17	1.70 B ON FEB 12	188 000	1931
1932	---	75.0 ON APR 18	1.53 B ON JAN 1	300 000	1932
1933	---	88.5 ON APR 11	2.72 B ON FEB 1	593 000	1933
1934	---	116 ON APR 14	2.29 B ON DEC 31	507 000	1934
1935	---	185 ON JUL 3	1.87 B ON FEB 4	648 000	1935
1936	---	303 B ON APR 15	2.21 B ON DEC 31	958 000	1936
1937	---	49.3 ON APR 22	0.6808 ON DEC 20	214 000	1937
1938	---	70.8 ON MAR 28	0.8918 ON JAN 1	385 000	1938
1939	---	47.3 ON APR 26	1.50 B ON MAR 3	268 000	1939
1940	---	23.4 ON APR 25	0.4708 ON FEB 4	117 000	1940
1941	---	94.3 ON APR 18	1.55 B ON FEB 27	283 000	1941
1942	---	174 B ON APR 9	0.1988 ON FEB 21 *	721 000	1942
1943	---	187 ON APRY 20	1.30 B ON MAR 8	1 060 000	1943
1944	---	73.6 ON JUL 8	0.8838 ON JAN 15	392 000	1944
1945	---	88.3 ON APR 7	0.8508 ON JAN 8	501 000	1945
1946	---	210 ON APR 9	1.25 B ON JAN 6	718 000	1946
1947	---	314 ON JUL 6	1.98 B ON JAN 4	1 720 000	1947
1948	---	450 ON MAY 7	4.64 B ON FEB 29	1 780 000	1948
1949	---	145 ON APR 14	0.7938 ON FEB 16	587 000	1949
1950	---	157 ON JUL 16	2.52 B ON JAN 31	1 080 000	1950
1951	---	214 ON APR 15	3.57 B ON DEC 31	1 090 000	1951
1952	---	134 B ON APR 16	1.70 ON NOV 21	603 000	1952
1953	---	165 ON JUN 4	2.46 B ON JAN 15	1 590 000	1953
1954	---	360 ON JUL 9	5.37 B ON FEB 11	2 490 000	1954
1955	---	541 ON MAY 20	11.8 B ON MAR 17	3 120 000	1955
1956	---	430 ON MAY 18	11.3 B ON DEC 23	2 880 000	1956
1957	---	243 ON MAY 5	4.67 B ON DEC 29	1 320 000	1957
1958	---	135 B ON APR 5	1.30 B ON DEC 21	378 000	1958
1959	---	89.5 ON APR 15	0.9638 ON JAN 20	357 000	1959
1960	245 B AT 18 00 CST ON APR 15	241 ON APR 16	2.27 B ON DEC 18	980 000	1960
1961	---	22.18 ON APR 11	0.595 ON AUG 22	127 000	1961
1962	---	84.7 ON APR 28	1.05 B ON JAN 27	304 000	1962
1963	90.6 AT 14 00 CST ON JUN 13	85.8 ON JUN 13	0.7998 ON FEB 7	453 000	1963
1964	153 AT 19 00 CST ON APR 17	133 ON APR 18	1.76 A ON AUG 25	434 000	1964
1965	200 AT 06 00 CST ON APR 20	199 ON APR 20	2.58 B ON JAN 16	847 000	1965
1966	154 AT 12 00 CST ON MAY 6	154 ON MAY 6	2.65 B ON NOV 30	868 000	1966
1967	---	155 ON APR 21	1.80 ON SEP 9	748 000	1967
1968	---	81.0 ON APR 12	2.44 B ON DEC 31	399 000	1968
1969	362 AT 07 49 CST ON APR 17 *	360 ON APR 17	2.28 B ON JAN 2	1 080 000	1969
1970	223 AT 23 38 CST ON MAY 15	222 ON MAY 15	10.1 ON SEP 17	1 340 000	1970
1971	185 AT 09 21 CST ON APR 18	142 ON APR 18	6.26 ON SEP 25	1 020 000	1971
1972	223 AT 08 00 CST ON APR 20	221 ON APR 20	5.13 ON SEP 6	1 230 000	1972
1973	---	24.58 ON APR 5	4.02 ON AUG 20	398 000	1973
				881 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

R - REVISED SINCE JAN 1 1986

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO 05MJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	14.2	11.3	11.3	147	318	130	108	113	57.3	33.2	---	14.2	---	1913
1914	10.0	9.01	9.20	96.2	173	93.7	35.1	16.2	12.2	11.6	8.50	5.51	40.1	1914
1915	3.45	3.97	5.94	30.2	23.9	17.9	18.9	15.4	10.8	12.4	9.91	4.53	13.1	1915
1916	6.42	6.18	6.44	202	169	143	112	41.7	22.3	23.5	21.5	12.2	85.6	1916
1917	6.61	5.96	6.91	69.0	206	113	74.3	32.8	19.1	15.6	15.2	8.13	48.0	1917
1918	3.14	3.25	9.52	72.0	40.1	38.1	26.5	17.7	17.5	12.6	11.8	7.85	21.7	1918
1919	6.58	5.90	6.04	113	80.5	36.8	38.8	17.6	14.6	15.1	10.7	6.55	29.3	1919
1920	5.29	4.86	6.13	85.2	240	115	39.6	22.5	13.7	12.1	13.6	7.45	47.5	1920
1921	5.21	3.75	5.13	113	148	93.2	117	59.5	35.5	56.5	54.7	30.7	60.8	1921
1922	16.8	8.88	17.7	182	412	278	90.6	46.9	32.2	27.5	26.7	16.8	95.0	1922
1923	13.3	11.7	10.6	154	478	203	148	105	50.8	39.6	32.1	27.5	107	1923
1924	12.4	11.6	14.5	82.6	134	82.3	61.3	32.7	25.8	28.4	22.4	15.1	42.0	1924
1925	8.71	7.46	16.7	265	208	125	84.0	32.7	20.0	20.1	16.6	13.2	68.3	1925
1926	7.86	7.57	11.6	56.5	80.9	35.8	27.5	14.9	20.6	25.2	20.4	15.4	25.4	1926
1927	12.1	10.2	20.2	226	438	284	158	78.8	56.2	84.1	28.8	19.2	117	1927
1928	16.1	12.7	33.4	247	170	120	147	75.2	42.3	29.8	24.0	10.9	77.5	1928
1929	8.07	8.36	10.4	49.9	73.6	47.8	25.0	11.0	7.85	8.58	7.28	8.65	22.3	1929
1930	7.02	5.31	7.70	138	79.2	40.4	27.3	13.0	10.0	10.3	7.06	5.87	29.3	1930
1931	6.33	6.09	9.12	36.4	20.6	12.4	11.0	7.07	7.21	7.84	7.85	4.81	11.4	1931
1932	3.87	3.24	4.94	79.2	42.1	18.3	15.1	8.42	7.19	7.92	7.86	5.34	18.9	1932
1933	4.29	3.89	4.75	122	73.2	61.9	35.1	13.6	8.00	7.03	7.98	6.95	29.1	1933
1934	5.98	5.84	28.2	108	72.2	28.4	13.6	7.55	5.83	7.85	6.80	3.80	24.6	1934
1935	3.13	3.63	4.26	78.0	41.7	32.7	150	44.9	22.8	15.4	9.83	6.88	34.7	1935
1936	6.14	5.34	3.95	159	164	57.7	28.6	12.8	10.1	9.58	7.37	3.18	39.0	1936
1937	3.11	3.68	4.33	29.7	34.5	28.5	12.8	6.71	5.20	8.12	6.29	3.27	12.2	1937
1938	2.87	3.35	30.0	76.5	40.7	19.0	12.8	8.86	6.09	6.04	5.07	4.56	18.0	1938
1939	4.12	3.90	4.40	53.9	29.3	17.1	12.1	9.88	8.23	6.22	5.29	4.81	13.2	1939
1940	1.83	2.08	2.54	16.3	20.5	10.8	7.28	6.27	5.75	5.86	4.47	3.37	7.28	1940
1941	3.13	4.08	3.91	74.3	40.7	22.7	10.9	6.40	10.5	9.47	8.07	5.89	16.4	1941
1942	1.89	2.98	11.5	184	84.0	48.6	28.2	21.1	28.8	20.5	12.9	5.52	37.4	1942
1943	5.86	5.27	5.18	182	171	140	77.5	34.7	17.2	14.4	12.2	8.70	56.9	1943
1944	3.38	4.11	4.13	29.2	37.3	47.2	83.3	38.2	27.0	21.8	14.2	8.38	27.5	1944
1945	6.17	6.88	27.2	102	86.8	41.1	35.9	19.1	12.2	13.1	9.12	6.54	28.9	1945
1946	4.71	4.77	27.6	152	59.6	25.2	32.5	17.5	11.1	17.5	17.7	8.34	31.6	1946
1947	4.76	4.87	5.53	144	217	81.8	224	58.7	31.2	27.0	17.7	13.2	70.5	1947
1948	11.5	8.80	8.87	83.5	383	210	89.0	86.5	29.4	19.7	15.3	12.5	76.8	1948
1949	10.4	6.30	5.47	188	151	87.6	35.9	33.1	14.1	13.7	15.2	10.4	47.7	1949
1950	6.17	5.80	5.03	112	228	155	117	78.7	38.4	28.1	21.0	12.4	87.9	1950
1951	11.8	11.0	13.4	187	237	118	57.7	22.0	22.2	28.3	21.2	14.6	80.5	1951
1952	7.86	7.79	7.45	109	86.7	39.6	23.1	13.0	19.9	13.3	9.75	8.80	29.6	1952
1953	5.86	5.76	5.74	102	97.2	146	144	121	56.0	33.7	38.7	19.0	84.9	1953
1954	16.3	13.4	18.0	66.2	147	187	307	147	88.0	87.6	88.9	41.6	88.8	1954
1955	28.3	25.1	21.3	308	440	376	194	84.0	54.7	48.2	28.8	25.4	137	1955
1956	19.5	16.4	17.1	182	473	388	192	89.2	53.3	37.9	30.7	25.8	126	1956
1957	18.4	12.8	27.8	137	230	90.0	47.9	32.3	26.4	23.3	21.6	17.8	57.4	1957
1958	7.82	8.95	11.4	102	37.9	21.2	17.1	9.10	7.78	8.84	9.85	4.87	20.6	1958
1959	4.55	3.78	5.26	78.0	38.3	25.0	21.8	10.4	9.82	20.3	21.7	13.2	21.0	1959
1960	8.83	10.3	9.68	259	195	101	40.3	15.5	11.1	11.4	9.14	5.48	55.2	1960
1961	5.76	4.28	9.33	44.0	23.3	11.2	6.26	3.50	4.43	5.78	4.80	2.77	10.4	1961
1962	2.76	2.52	2.89	72.3	57.8	30.2	15.7	28.4	17.8	9.37	8.61	5.40	22.0	1962
1963	1.84	1.88	6.11	83.0	39.1	58.6	32.7	17.7	11.7	10.7	7.37	5.08	23.9	1963
1964	5.49	6.83	7.53	78.3	85.3	31.1	18.5	12.0	11.5	12.0	8.27	4.86	23.5	1964
1965	5.26	5.70	5.61	141	115	79.8	57.8	30.5	27.3	32.6	18.7	15.0	44.4	1965
1966	11.0	11.4	38.3	183	188	89.2	41.6	19.8	15.0	9.59	7.33	5.48	48.5	1966
1967	8.14	8.04	9.39	108	155	59.5	21.2	9.76	5.70	7.02	8.91	7.71	34.7	1967
1968	7.91	7.42	15.6	89.5	32.2	16.7	12.0	17.8	21.3	14.8	11.2	8.31	21.0	1968
1969	4.36	5.02	6.39	289	322	138	98.3	51.5	22.2	18.3	16.4	17.7	82.5	1969
1970	18.8	15.1	15.0	115	264	183	115	58.8	24.5	25.3	24.4	18.0	73.2	1970
1971	15.3	14.6	16.8	83.0	124	113	78.9	42.9	18.3	27.3	34.4	28.7	50.7	1971
1972	24.8	25.5	43.0	58.5	217	110	55.5	23.1	16.1	23.2	23.6	21.5	58.7	1972
1973	23.3	18.4	24.2	30.6	16.6	23.4	19.0	14.4	13.2	28.3	18.1	17.5	20.7	1973
1974	18.2	16.8	19.7	147	383	315	141	73.0	44.7	39.4	38.2	36.8	105	1974
1975	32.3	28.8	28.9	82.8	248	247	189	89.4	72.0	102	76.3	54.4	101	1975
1976	46.8	39.9	34.7	312	389	249	150	84.5	46.0	30.5	22.4	18.4	119	1976
1977	21.3	18.2	18.2	29.5	22.5	17.2	19.4	15.6	17.6	18.8	18.7	17.9	19.8	1977
1978	16.9	15.6	22.2	88.4	57.8	26.8	19.9	14.6	14.3	15.5	14.2	13.9	28.0	1978
1979	12.0	13.4	16.4	110	239	234	117	35.6	18.7	15.3	16.4	18.5	70.8	1979
1980	23.0	20.0	18.6	54.5	23.8	11.5	11.1	14.2	16.8	18.2	19.3	17.9	20.7	1980
1981	15.3	13.3	29.9	27.1	16.6	15.4	13.9	8.88	17.3	16.3	16.6	13.5	17.0	1981
1982	13.4	12.5	13.3	97.8	110	71.1	21.0	14.5	16.1	21.3	22.4	21.1	35.2	1982
1983	22.3	21.8	27.3	139	178	91.1	37.6	38.8	31.2	24.5	29.5	19.3	55.1	1983
1984	20.5	17.4	16.7	33.4	30.4	43.6	29.4	12.6	9.44	15.6	16.0	17.9	21.9	1984
1985	17.7	18.5	42.2	137	84.7	84.7	22.5	22.1	29.0	28.5	25.5	27.5	43.3	1985
1986	25.1	25.1	56.0	188	182	70.5	32.6	20.7	18.5	21.5	18.5	19.7	53.3	1986
MEAN	10.9	10.0	14.8	117	149	94.5	84.6	34.8	22.5	22.0	18.2	13.5	47.3	MEAN

LOCATION - LAT 49 52 05 N
LONG 97 24 10 W

DRAINAGE AREA 153 000 km²
REGULATED

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO 05MJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	386 ON MAY 8	---	---	1914
		185 ON MAY 19	2.49 B ON DEC 31	1 270 000	
1915	---	---	---	---	1915
1916	---	47.9 ON APR 27	3.23 B ON JAN 1	415 000	1916
1917	---	614 ON APR 27 *	5.86 ON FEB 11	2 070 000	1917
1918	---	216 ON MAY 31	3.43 B ON DEC 31	1 510 000	1918
1919	---	129 ON APR 9	2.49 B ON JAN 28	884 000	1919
		216 ON APR 17	5.66 B ON FEB 26	925 000	
1920	---	---	---	---	1920
1921	---	275 ON MAY 1	4.45 B ON FEB 25	1 500 000	1921
1922	---	174 ON APR 21	3.40 B ON FEB 28	1 920 000	1922
1923	---	547 ON MAY 18	8.21 B ON FEB 21	2 990 000	1923
1924	---	592 ON MAY 16	9.88 B ON MAR 31	3 370 000	1924
		300 ON APR 25	10.4 B ON DEC 31	1 330 000	
1925	---	---	---	---	1925
1926	---	388 ON APR 7	7.11 B ON FEB 28	2 180 000	1926
1927	---	117 ON APR 30	7.36 B ON FEB 9	802 000	1927
1928	---	518 ON MAY 15	10.0 B ON MAR 3	3 680 000	1928
1929	---	380 ON APR 24	8.86 B ON DEC 31	2 450 000	1929
		114 ON MAY 2	5.38 B ON NOV 21	702 000	
1930	---	---	---	---	1930
1931	---	276 ON APR 13	4.67 B ON FEB 14	923 000	1931
1932	---	54.4 ON APR 13	4.25 B ON NOV 25	358 000	1932
1933	---	191 ON APR 18	2.92 B ON FEB 22	534 000	1933
1934	---	202 ON APR 19	3.43 B ON FEB 16	919 000	1934
		217 ON APR 19	3.31 B ON DEC 30	774 000	
1935	---	---	---	---	1935
1936	---	289 ON JUL 8	2.63 B ON FEB 6	1 080 000	1936
1937	---	473 ON APR 22	0.5668 ON DEC 11 *	1 230 000	1937
1938	---	84.68 ON APR 20	2.15 B ON DEC 31	385 000	1938
1939	---	148.8 ON APR 10	2.21 B ON JAN 1	586 000	1939
		92.38 ON APR 16	3.54 B ON DEC 8	415 000	
1940	---	---	---	---	1940
1941	---	80.9 ON APR 25	1.27 B ON JAN 13	230 000	1941
1942	---	284 B ON APR 15	2.89 B ON JAN 23	519 000	1942
1943	---	317 ON APR 16	0.7148 ON JAN 13	1 180 000	1943
1944	---	289 ON APR 15	4.11 B ON DEC 31	1 790 000	1944
		116 ON JUL 13	2.65 B ON JAN 15	868 000	
1945	---	---	---	---	1945
1946	---	139 ON APR 12	4.38 B ON DEC 19	911 000	1946
1947	---	206 ON APR 14	4.33 B ON MAR 12	998 000	1947
1948	---	320 ON JUL 13	4.22 B ON JAN 11	2 220 000	1948
1949	---	473 ON MAY 18	7.84 B ON MAR 14	2 430 000	1949
		430 ON APR 18	5.21 B ON MAR 7	1 510 000	
1950	---	---	---	---	1950
1951	---	281 ON MAY 12	3.94 B ON MAR 8	2 140 000	1951
1952	---	286 ON APR 20	7.45 B ON DEC 31	1 910 000	1952
1953	---	230 B ON APR 17	5.89 B ON DEC 1	936 000	1953
1954	---	232 B ON APR 13	4.82 B ON JAN 26	2 050 000	1954
		382 ON JUL 16	12.0 B ON FEB 11	3 120 000	
1955	484 AT 01 00 CST ON MAY 24	481 ON MAY 23	12.3 B ON NOV 9	4 330 000	1955
1956	589 AT 18 00 CST ON APR 26	564 ON APR 26	14.9 B ON FEB 21	3 980 000	1956
1957	249 AT 11 00 CST ON MAY 12	248 ON MAY 12	10.8 B ON DEC 31	1 810 000	1957
1958	2838 AT 21 00 CST ON APR 6	222 B ON APR 6	2.88 B ON DEC 17	648 000	1958
1959	1818 AT 18 00 CST ON APR 14	146 B ON APR 14	3.45 B ON FEB 10	862 000	1959
1960	566 AT 17 00 CST ON APR 19	586 ON APR 18	4.62 B ON DEC 29	1 780 000	1960
1961	1408 AT 12 30 CST ON APR 19	81.48 ON APR 16	1.98 B ON DEC 21	329 000	1961
1962	430 AT 01 00 CST ON APR 24	306 ON APR 24	2.35 B ON MAR 21	893 000	1962
1963	247 AT 08 30 CST ON APR 8	204 ON APR 8	1.13 B ON JAN 27	754 000	1963
1964	277 AT 02 00 CST ON APR 18	228 ON APR 18	4.22 B ON DEC 20	742 000	1964
1965	351 AT 02 00 CST ON APR 19	345 ON APR 19	4.50 B ON JAN 4	1 400 000	1965
1966	3148 AT 05 00 CST ON APR 14	292 B ON APR 14	5.89 B ON DEC 9	1 530 000	1966
1967	248 AT 20 00 CST ON APR 20	236 ON APR 25	3.88 B ON NOV 8	1 090 000	1967
1968	2048 AT 14 10 CST ON APR 11	153 B ON APR 10	4.39 B ON DEC 31	554 000	1968
1969	597 AT 02 54 CST ON APR 28	595 ON APR 28	3.79 B ON JAN 11	2 610 000	1969
1970	340 AT 05 00 CST ON MAY 21	340 ON MAY 20	9.29 B ON NOV 26	2 310 000	1970
1971	160 AT 10 00 CST ON APR 20	158 ON APR 20	12.8 B ON FEB 6	1 600 000	1971
1972	---	240 ON MAY 18	14.0 ON SEP 22	1 790 000	1972
1973	---	62.68 ON APR 6	8.50 ON SEP 7	652 000	1973
1974	422 AT 23 35 CST ON APR 24	418 ON APR 25	14.9 B ON FEB 1	3 300 000	1974
1975	271 AT 04 00 CST ON MAY 25	271 ON MAY 25	25.5 B ON DEC 2	3 200 000	1975
1976	614 AT 08 00 CST ON APR 25 *	614 ON APR 25	12.5 B ON DEC 4	3 750 000	1976
1977	---	58.38 ON APR 13	9.85 ON AUG 27	617 000	1977
1978	---	142 B ON APR 21	7.53 B ON NOV 16	882 000	1978
1979	3098 AT 14 15 CST ON APR 24	270 B ON APR 24	9.03 B ON NOV 12	2 230 000	1979
1980	1428 AT 18 32 CST ON APR 17	99.88 ON APR 17	8.71 B ON NOV 16	654 000	1980
1981	---	61.58 ON APR 2	5.91 ON AUG 23	537 000	1981
1982	264 AT 04 35 CST ON APR 18	214 B ON APR 18	11.2 ON SEP 13	1 140 000	1982
1983	226 AT 11 16 CST ON APR 19	213 ON APR 19	12.1 B ON NOV 27	1 740 000	1983
1984	145 AT 21 32 CST ON APR 7	98.3 ON APR 8	6.71 ON SEP 2	693 000	1984
1985	2398 AT 18 52 CST ON APR 11	196 B ON APR 1	7.87 ON AUG 2	1 370 000	1985
1986	331 AT 22 48 CST ON APR 4	267 ON APR 5	9.01 ON OCT 2	1 680 000	1986
				1 490 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER AT ST JAMES - STATION NO 05MJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	179	188	80.2	60.3	87.9	130	---	---	---	1912
1913	---	---	---	283	337	141	118	113	---	---	---	---	---	1913
MEAN	---	---	---	283	258	165	99.1	86.7	87.9	130	---	---	---	MEAN

LOCATION - LAT 49 52 30 N LONG 97 11 30 W

DRAINAGE AREA 154 000 km^2
NATURAL FLOW

ASSINIBOINE RIVER NEAR BRANDON - STATION NO 05MH013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	12.4	12.4	17.3	147	210	177	91.6	54.2	36.0	31.9	28.9	26.8	70.7	1974
1975	25.0	24.6	23.8	78.7	196	126	75.6	57.1	83.3	59.5	48.1	33.3	67.8	1975
1976	28.8	27.3	18.2	335	227	122	96.0	52.8	22.3	21.2	20.2	17.7	82.2	1976
1977	18.0	13.7	11.7	18.2	14.5	11.0	12.6	9.91	8.75	12.5	15.7	18.6	13.6	1977
1978	16.9	17.2	20.5	50.6	28.3	11.6	8.67	4.11	5.68	7.39	13.2	11.3	16.3	1978
1979	11.0	11.0	14.7	106	214	120	80.0	14.3	9.51	11.1	14.8	17.8	50.9	1979
1980	17.8	17.1	17.2	43.6	13.2	7.91	8.30	8.76	10.8	11.3	14.5	12.9	15.2	1980
1981	11.8	12.8	18.9	13.5	8.39	8.84	4.98	3.72	4.45	10.2	14.8	12.5	10.4	1981
1982	11.4	11.7	9.98	55.2	43.0	26.7	6.60	6.40	4.44	9.86	15.1	16.3	18.0	1982
1983	19.2	18.4	20.2	98.7	97.7	58.6	24.9	30.6	11.1	13.4	21.9	18.5	36.0	1983
1984	18.8	18.2	14.2	17.3	10.6	12.9	21.1	5.16	4.63	8.17	18.0	18.1	13.9	1984
1985	17.8	18.1	34.9	93.4	61.2	42.1	13.5	13.8	17.5	19.9	29.4	25.3	32.2	1985
1986	22.3	21.6	43.7	116	101	38.3	14.4	10.2	7.73	12.4	17.2	18.1	35.2	1986
MEAN	17.8	17.2	20.7	90.1	94.2	58.7	33.7	20.9	15.8	17.6	20.9	18.9	35.6	MEAN

LOCATION - LAT 49 52 20 N, LONG 100 06 10 W DRAINAGE AREA, 85 900 km² REGULATED

ASSINIBOINE RIVER NEAR BRANDON - STATION NO 05MH013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	---	309 A ON APR 22	12.2 B ON FEB 22	2 230 000	1974
1975	282 AT 16 38 CST ON MAY 1 *	261 ON MAY 1			
1976	---	617 ON APR 18 *	17.5 B ON APR 12	2 140 000	1975
1977	20.9 AT 23 31 CST ON APR 14	20.7 ON APR 14	15.2 B ON MAR 29	2 600 000	1976
1978	86.3 AT 20 50 CST ON APR 18	63.4 ON APR 18	7.28 ON SEP 4	429 000	1977
1979	---	314 B ON APR 27	3.14 ON AUG 21	513 000	1978
1980	103 B AT 08 52 CST ON APR 15	95.18 ON APR 15	7.57 ON AUG 27	1 810 000	1979
1981	---	26.18 ON MAR 4	6.76 ON JUN 28	482 000	1980
1982	117 AT 12 40 CST ON APR 22	108 ON APR 22	2.38 ON AUG 10 *	327 000	1981
1983	191 AT 10 45 CST ON APR 26	190 ON APR 26	3.65 ON SEP 28	588 000	1982
1984	35.58 AT 18 00 CST ON APR 2	35.08 ON APR 2	8.31 ON SEP 14	1 130 000	1983
1985	156 AT 16 34 CST ON APR 11	141 ON APR 11	3.09 ON SEP 6	440 000	1984
1986	202 B AT 20 01 CST ON APR 3	193 B ON APR 3	8.53 ON AUG 2	1 020 000	1985
			6.41 ON SEP 14	1 110 000	1986
			* - EXTREME RECORDED FOR THE PERIOD OF RECORD	1 120 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO 05MH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	9.45	35.6	21.2	8.42	4.80	4.28	5.08	6.12	---	---	---	1961
1962	---	---	3.85	59.4	56.7	26.8	14.5	15.1	10.9	10.2	---	---	---	1962
1963	---	---	18.5	68.5	32.6	52.5	27.8	14.1	11.1	10.4	---	---	---	1963
1964	---	---	6.56	83.3	87.9	28.1	19.9	9.82	13.9	10.8	---	---	---	1964
1965	---	---	5.85	154	107	78.0	81.3	30.0	33.5	34.9	---	---	---	1965
1966	---	---	39.5	155	176	88.9	40.9	21.0	15.2	9.34	---	---	---	1966
1967	---	---	7.75	105	182	63.8	17.6	8.08	5.30	7.20	7.88	7.29	---	1967
1968	7.65	7.59	24.0	79.6	28.0	18.1	11.3	16.1	20.6	16.3	12.7	7.49	20.6	1968
1969	6.16	7.34	8.99	338	292	130	91.8	44.3	19.4	18.0	18.0	17.6	82.8	1969
1970	16.3	15.8	17.2	156	315	193	118	55.5	24.1	19.7	28.8	18.0	81.9	1970
1971	16.3	15.9	17.3	106	133	123	79.0	41.5	15.5	24.7	39.9	29.1	53.6	1971
1972	25.2	25.1	66.3	201	223	107	49.1	18.9	14.9	18.1	22.6	21.8	88.1	1972
1973	22.2	18.6	25.7	27.4	23.0	25.9	21.1	14.1	16.1	28.6	19.2	18.6	21.4	1973
1974	15.5	16.9	22.0	324	484	345	153	74.2	48.0	43.9	41.7	35.8	132	1974
1975	31.2	27.9	28.6	127	449	333	181	94.8	85.0	104	74.7	55.5	133	1975
1976	44.8	36.1	35.8	908	588	255	156	82.8	40.0	29.5	22.8	19.8	184	1976
1977	21.7	18.8	20.8	28.6	27.8	19.5	23.5	18.2	17.0	18.4	17.9	20.8	21.1	1977
1978	19.2	19.7	25.0	97.5	53.4	22.5	20.1	13.8	13.4	11.7	19.3	13.0	27.3	1978
1979	17.9	17.4	24.8	223	399	281	118	30.0	13.6	13.4	21.1	16.4	88.1	1979
1980	19.2	18.5	18.6	51.3	21.0	14.4	14.0	17.6	16.3	19.4	22.3	16.8	20.7	1980
1981	17.0	17.8	30.9	24.0	17.0	15.7	11.0	10.0	11.7	15.8	18.3	15.0	17.0	1981
1982	15.5	14.3	12.4	115	109	59.8	16.9	13.8	12.2	18.4	26.1	21.9	36.2	1982
1983	24.6	22.0	32.5	225	187	85.0	37.7	43.8	29.0	25.2	33.9	20.5	83.9	1983
1984	21.2	19.7	20.3	31.5	35.6	35.2	31.0	10.5	9.11	15.5	17.1	22.7	22.5	1984
1985	17.9	19.0	65.7	135	83.5	81.3	19.9	21.8	28.2	30.1	34.7	28.7	45.3	1985
1986	27.3	26.3	85.7	168	164	63.4	27.9	20.1	13.1	24.2	27.3	23.1	54.2	1986
MEAN	20.4	19.1	25.2	155	184	96.6	52.8	28.6	20.8	22.4	26.3	21.4	62.2	MEAN

LOCATION - LAT 49 41 54 N, LONG 98 53 58 W DRAINAGE AREA, 152 000 km² REGULATED

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO 05MH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	57.2 B ON APR 10	---	---	1961
1962	---	184 B ON APR 20	---	---	1962
1963	---	107 B ON APR 8	---	---	1963
1964	---	144 E ON APR 20	---	---	1964
1965	---	379 B ON APR 14	---	---	1965
1966	---	224 ON MAY 9	---	---	1966
1967	---	219 B ON APR 22	---	---	1967
1968	---	105 ON APR 13	6.748 ON DEC 31	650 000	1968
1969	---	694 A ON APR 24	5.388 ON JAN 30 *	2 610 000	1969
1970	---	501 ON APR 28	14.7 B ON MAR 2	2 580 000	1970
1971	195 AT 23 00 CST ON APR 17	193 ON APR 18	10.8 B ON NOV 6	1 690 000	1971
1972	---	314 ON APR 21	13.3 ON SEP 17	2 090 000	1972
1973	---	56.48 ON APR 1	10.6 ON AUG 28	675 000	1973
1974	926 AT 05 05 CST ON APR 22	909 ON APR 22	13.5 B ON JAN 27	4 170 000	1974
1975	515 AT 20 00 CST ON MAY 1	498 E ON MAY 1	24.5 B ON FEB 18	4 200 000	1975
1976	1 470 AT 02 00 CST ON APR 20 *	1 460 ON APR 20 *	12.7 B ON NOV 30	5 830 000	1976
1977	80.5 AT 08 45 CST ON JUL 13	42.2 ON JUL 13	10.4 B ON NOV 22	886 000	1977
1978	---	154 B ON APR 10	10.9 ON OCT 23	862 000	1978
1979	581 A AT 10 45 CST ON APR 24	546 A ON APR 24	10.2 ON OCT 6	3 100 000	1979
1980	89.9 AT 16 00 CST ON APR 17	97.5 ON APR 17	9.218 ON DEC 21	856 000	1980
1981	---	41.88 ON MAR 22	6.20 ON AUG 22	536 000	1981
1982	---	239 A ON APR 16	10.8 B ON MAR 23	1 140 000	1982
1983	---	334 A ON APR 11	13.8 B ON DEC 19	2 020 000	1983
1984	84.18 AT 15 18 CST ON APR 6	56.18 ON APR 6	6.94 ON AUG 27	710 000	1984
1985	277 B AT 20 52 CST ON APR 3	227 B ON MAR 28	9.738 ON FEB 1	1 430 000	1985
1986	274 AT 16 44 CST ON APR 5	264 ON APR 5	12.1 ON SEP 19	1 710 000	1986
				1 980 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO 05ME005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.72	10.3	8.23	3.45	1.36	0.496	0.854	1.96	---	---	---	1961
1962	---	---	2.02	31.3	32.6	8.93	3.89	3.00	3.59	3.55	---	---	---	1962
1963	---	---	5.30	27.3	15.5	17.9	13.8	5.92	5.06	3.99	---	---	---	1963
1964	---	---	2.91	44.4	37.7	10.1	5.02	3.20	2.86	3.81	---	---	---	1964
1965	---	---	1.75	73.5	44.7	43.4	15.1	7.05	7.79	8.08	---	---	---	1965
1966	---	---	3.56	103	80.9	26.3	23.8	10.2	4.65	2.06	---	---	---	1966
1967	---	---	3.31	45.8	94.4	27.5	6.49	3.07	1.90	3.19	---	---	---	1967
1968	---	---	8.22	42.9	12.0	6.41	4.10	4.95	2.54	1.87	---	---	---	1968
1969	---	---	3.57	92.0	57.1	29.4	25.5	8.51	7.00	9.82	---	---	---	1969
1970	---	---	9.22	80.0	108	51.0	38.9	23.4	9.39	12.1	---	---	---	1970
1971	---	---	9.85	50.3	55.7	43.6	22.4	13.3	4.48	13.1	---	---	---	1971
1972	---	---	22.4	80.2	95.7	58.2	8.52	5.85	6.53	10.1	---	---	---	1972
1973	---	---	11.7	9.26	5.70	8.69	6.86	4.17	7.89	11.6	12.3	12.2	---	1973
1974	12.9	13.1	19.7	97.6	151	135	80.7	46.5	33.2	30.1	29.6	27.0	56.5	1974
1975	24.4	23.0	23.5	55.7	144	97.1	65.0	47.0	35.9	30.2	34.9	32.0	51.3	1975
1976	26.6	23.5	14.6	230	147	102	77.3	44.2	19.5	20.5	19.3	16.8	61.6	1976
1977	15.3	10.8	11.2	11.0	8.49	7.20	8.64	7.85	5.87	8.13	17.0	14.3	10.5	1977
1978	12.9	14.5	18.4	35.6	13.9	7.03	4.62	2.74	4.58	7.56	17.0	10.4	12.4	1978
1979	8.83	10.1	27.7	105	136	89.0	50.0	9.36	8.79	11.2	12.3	16.3	40.5	1979
1980	17.4	15.3	16.3	33.4	7.08	6.11	7.19	6.61	5.41	8.89	15.5	13.6	12.7	1980
1981	9.38	10.6	10.6	7.95	3.75	3.95	1.59	1.85	3.39	9.24	13.3	9.48	7.04	1981
1982	10.4	8.40	8.48	31.4	32.6	20.9	5.19	4.77	3.81	10.5	13.6	14.2	13.5	1982
1983	18.7	15.8	21.1	58.4	74.5	47.1	22.3	27.4	9.53	13.9	21.4	17.0	28.8	1983
1984	16.7	15.0	17.1	12.7	6.61	11.2	18.5	3.54	4.26	9.02	18.1	17.3	12.5	1984
1985	16.8	18.1	27.2	83.6	52.3	37.0	10.8	8.48	13.9	15.0	28.0	22.9	27.9	1985
1986	21.3	20.5	44.8	74.8	58.1	25.3	9.32	8.71	7.71	10.8	19.0	16.5	26.5	1986
MEAN	16.1	15.3	13.3	58.1	57.1	35.5	20.6	12.1	8.48	10.4	19.4	17.1	27.8	MEAN

LOCATION - LAT 50 06 39 N
LONG 101 02 08 W
DRAINAGE AREA, 76 100 km^2
REGULATED

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO OSM8006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	12.58 ON APR 8	---	---	1961
1962	---	89.8 ON APR 26	---	---	1962
1963	---	36.0 ON JUN 11	---	---	1963
1964	---	79.98 ON APR 17	---	---	1964
1965	---	150 B ON APR 20	---	---	1965
1966	---	148 ON APR 29	---	---	1966
1967	---	112 ON MAY 13	---	---	1967
1968	---	64.6 ON APR 15	---	---	1968
1969	---	278 ON APR 15	---	---	1969
1970	---	142 ON MAY 3	---	---	1970
1971	---	112 B ON APR 14	---	---	1971
1972	---	173 B ON APR 19	---	---	1972
1973	15.18 AT 17 47 CST ON MAR 31	14.88 ON MAR 31	---	---	1973
1974	273 AT 11 52 CST ON APR 22	270 ON APR 22	12.5 B ON FEB 2	1 780 000	1974
1975	174 AT 17 15 CST ON MAY 21	174 ON MAY 21	12.7 B ON APR 11	1 620 000	1975
1976	462 AT 23 09 CST ON APR 11 *	447 ON APR 12 *	13.4 B ON MAR 4	1 950 000	1976
1977	22.9 AT 06 00 CST ON NOV 10	22.6 ON NOV 9	4.79 ON JUL 29	331 000	1977
1978	---	51.58 ON APR 10	2.39 ON AUG 14	390 000	1978
1979	279 AT 14 42 CST ON APR 24	264 ON APR 24	6.15 ON AUG 23	1 280 000	1979
1980	---	59.28 ON APR 11	3.50 ON MAY 26	401 000	1980
1981	17.4 AT 14 13 CST ON APR 1	17.0 ON APR 2	0.995 ON JUL 29 *	222 000	1981
1982	---	87.38 ON APR 16	3.66 ON SEP 7	426 000	1982
1983	145 AT 22 05 CST ON APR 24	144 ON APR 24	7.63 ON SEP 10	908 000	1983
1984	31.98 AT 23 53 CST ON MAR 29	31.78 ON MAR 29	2.39 ON AUG 30	385 000	1984
1985	142 AT 15 50 CST ON APR 10	136 ON APR 10	6.61 ON AUG 9	882 000	1985
1986	183 B AT 21 37 CST ON APR 3	180 B ON APR 4	7.26 ON SEP 18	836 000	1986
				879 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO OSMJ003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	485	186	150	105	48.6	38.6	31.2	---	---	1923
1924	---	---	---	---	127	64.8	84.7	31.2	25.2	26.9	---	---	---	1924
1925	---	---	---	282	195	125	81.4	28.4	18.3	26.8	---	---	---	1925
1926	---	---	---	61.5	59.1	38.3	27.3	14.6	24.8	25.7	20.1	---	---	1926
1927	---	---	---	215	480	288	156	78.2	56.4	58.5	---	---	---	1927
1928	---	---	---	---	161	126	148	64.1	27.4	24.1	---	---	---	1928
1929	---	---	---	---	78.6	54.9	30.1	13.1	8.27	10.6	---	---	---	1929
1930	---	---	---	---	80.3	47.1	31.2	13.6	9.26	---	---	---	---	1930
1952	---	---	---	---	---	---	---	---	---	13.6	11.4	8.27	---	1952
1953	5.87	6.36	6.86	119	104	159	152	122	54.4	32.0	40.6	18.6	88.7	1953
1954	15.8	13.5	16.6	68.7	148	199	321	131	62.3	99.4	72.1	41.0	99.6	1954
1955	27.8	24.6	20.8	342	467	337	181	83.7	55.6	50.8	28.3	26.5	139	1955
1956	16.4	16.4	19.1	228	483	387	203	90.4	58.7	38.0	34.7	24.7	134	1956
1957	18.5	12.3	30.9	128	217	84.0	43.7	28.6	24.0	21.2	23.0	16.7	54.3	1957
1958	8.39	8.88	13.2	96.4	37.4	18.8	14.8	8.87	7.86	10.3	10.7	4.29	19.9	1958
1959	4.15	4.35	10.7	72.5	37.2	23.0	20.0	9.06	8.47	17.6	21.6	10.1	19.9	1959
1960	10.4	10.2	8.16	274	193	97.3	38.5	12.8	8.81	10.0	7.96	4.32	56.2	1960
1961	4.89	5.29	10.7	41.0	23.4	11.4	5.85	3.41	4.82	8.84	8.67	3.19	10.9	1961
1962	3.94	3.84	4.25	66.1	64.6	27.8	12.8	15.6	11.3	9.54	10.1	4.98	19.6	1962
1963	1.67	0.895	4.49	73.9	37.8	57.7	33.0	16.1	11.6	11.0	8.59	5.80	21.9	1963
1964	5.33	5.18	8.55	86.9	82.7	31.0	17.0	9.78	10.8	12.4	9.26	5.32	24.4	1964
1965	6.05	6.20	5.97	144	108	80.5	59.2	30.1	31.0	36.0	18.3	15.7	45.2	1965
1966	13.4	10.9	39.4	154	171	70.1	43.8	22.4	16.9	10.6	8.27	5.88	47.3	1966
1967	6.67	6.83	8.01	99.1	161	69.4	19.1	8.30	5.07	7.73	8.19	6.64	33.9	1967
1968	6.82	7.08	15.0	78.9	31.6	17.-	12.3	16.8	20.9	15.7	13.7	8.50	20.2	1968
1969	4.42	7.02	8.83	338	285	132	85.6	45.5	21.0	19.4	19.1	16.9	83.5	1969
1970	15.5	14.4	16.4	106	268	187	121	58.8	25.3	28.4	27.0	17.1	74.0	1970
1971	15.1	14.8	16.8	95.4	127	116	79.4	44.5	17.9	29.8	34.4	28.8	51.9	1971
1972	26.0	24.6	45.3	94.8	221	107	62.6	22.0	18.7	23.2	23.8	20.3	56.5	1972
1973	22.9	18.2	23.0	29.3	15.3	23.4	20.6	14.1	15.4	31.6	19.4	18.8	20.9	1973
1974	18.1	17.2	20.5	140	343	301	144	71.4	45.6	42.3	40.9	35.5	102	1974
1975	31.3	28.1	29.8	85.0	260	247	188	88.0	74.0	101	72.0	56.8	102	1975
1976	46.4	38.0	34.9	334	387	241	151	83.7	46.2	31.3	22.7	18.2	118	1976
1977	21.7	19.0	19.6	28.0	24.8	18.5	21.8	16.8	17.3	18.8	19.2	20.5	20.5	1977
1978	18.8	19.8	24.4	93.0	55.2	27.7	22.7	16.4	15.3	17.2	16.5	13.6	28.3	1978
1979	14.1	15.5	14.9	93.0	239	236	118	38.9	22.6	18.2	20.7	20.5	71.3	1979
1980	21.6	20.7	20.4	49.6	25.2	12.5	11.4	15.3	19.2	21.4	20.5	21.9	21.6	1980
1981	16.1	16.6	26.9	22.1	18.6	17.1	13.8	11.4	19.9	19.1	17.0	11.8	17.5	1981
1982	14.3	13.4	11.2	105	119	73.6	23.5	16.1	17.4	20.1	24.3	20.9	38.2	1982
1983	23.9	23.6	29.3	140	176	87.7	38.8	40.5	31.9	25.1	30.1	33.9	56.1	1983
1984	21.6	20.7	20.0	30.9	34.6	35.5	30.0	12.9	10.1	15.9	23.5	18.8	22.9	1984
1985	20.5	21.0	42.6	133	87.2	82.5	22.7	24.5	33.7	34.6	40.5	33.1	46.3	1985
1986	27.8	28.7	51.3	158	150	88.1	29.6	24.0	21.2	19.3	20.4	22.4	51.6	1986
MEAN	15.8	14.9	19.9	127	183	109	72.2	38.2	25.7	27.0	23.8	17.9	52.9	MEAN

LOCATION - LAT 49 56 09 N
LONG 98 16 48 W

DRAINAGE AREA 152 000 km^2
REGULATED

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO 05MJ003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	---	---	---	1923
1924	---	626 ON MAY 10	---	---	1924
1925	---	---	---	---	1925
1926	---	334 ON APR 7	---	---	1926
1927	---	121 ON APR 28	---	---	1927
1928	---	578 ON MAY 13	---	---	1928
1929	---	---	---	---	1929
1930	---	121 ON APR 29	---	---	1930
1952	---	---	---	---	1952
1953	---	---	---	---	1953
1954	---	297 ON JUN 7	5.27 B ON JAN 20	2 170 000	1954
1955	---	425 ON JUL 13	11.8 B ON FEB 10	3 140 000	1955
1956	---	529 ON MAY 24	13.0 B ON NOV 19	4 400 000	1956
1957	---	537 B ON APR 21	14.4 B ON JAN 30	4 220 000	1957
1958	---	238 ON MAY 8	10.2 B ON DEC 31	1 710 000	1958
1959	---	188 ON APR 8	2.94 B ON DEC 15	627 000	1959
1960	592 AT 18 00 CST ON APR 15	185 B ON APR 10	3.60 B ON JAN 27	627 000	1960
1961	78.6 AT 13 45 CST ON APR 18	588 ON APR 15	3.37 B ON DEC 5	1 780 000	1961
1962	255 B AT 20 45 CST ON APR 20	62.3 ON APR 15	2.29 B ON DEC 16	344 000	1962
1963	147 B ON APR 11	199 B ON APR 21	3.37 B ON JAN 30	618 000	1963
1964	---	131 B ON APR 10	0.7088 ON JAN 21 *	689 000	1964
1965	504 B AT 07 30 CST ON APR 16	162 ON APR 21	4.81 B ON JAN 1	772 000	1965
1966	---	439 B ON APR 16	4.67 B ON APR 3	1 420 000	1966
1967	---	229 B ON APR 7	4.87 B ON DEC 6	1 480 000	1967
1968	---	223 A ON APR 24	4.64 ON SEP 8	1 070 000	1968
1969	851 AT 11 10 CST ON APR 24	102 B ON APR 8	4.52 B ON DEC 28	638 000	1969
1970	343 AT 07 42 CST ON MAY 19	826 ON APR 24	3.74 B ON JAN 13	2 630 000	1970
1971	179 AT 18 30 CST ON JUN 18	340 ON MAY 17	13.8 B ON JAN 30	2 330 000	1971
1972	---	170 ON JUN 19	12.9 B ON FEB 4	1 640 000	1972
1973	---	242 ON MAY 14	12.5 B ON NOV 17	1 790 000	1973
1974	388 B AT 10 00 CST ON APR 22	62.08 ON APR 2	9.94 ON AUG 26	888 000	1974
1975	275 AT 21 30 CST ON MAY 23	380 ON APR 23	14.2 B ON JAN 29	3 210 000	1975
1976	882 AT 18 30 CST ON APR 21 *	273 ON MAY 23	26.2 B ON JAN 29	3 230 000	1976
1977	67.7 AT 19 30 CST ON JUL 14	868 ON APR 21 *	12.1 B ON DEC 2	3 730 000	1977
1978	---	49.6 ON JUL 15	10.9 ON AUG 25	845 000	1978
1979	382 B AT 13 41 CST ON APR 25	154 B ON APR 10	10.7 B ON NOV 15	894 000	1979
1980	137 AT 18 38 CST ON APR 14	326 B ON APR 25	9.88 B ON MAR 12	2 250 000	1980
1981	59.1 AT 17 44 CST ON SEP 14	88.0 ON APR 14	8.86 ON NOV 14	683 000	1981
1982	205 AT 08 32 CST ON APR 25	47.0 ON SEP 14	1.75 B ON DEC 4	553 000	1982
1983	205 AT 08 25 CST ON APR 26	202 ON APR 25	9.98 B ON MAR 11	1 210 000	1983
1984	86.88 AT 13 21 CST ON APR 6	204 ON APR 26	15.6 B ON NOV 24	1 770 000	1984
1985	187 AT 23 22 CST ON APR 14	74.78 ON APR 7	6.57 ON AUG 30	723 000	1985
1986	205 AT 22 13 CST ON APR 1	183 ON APR 14	12.7 ON JUL 31	1 460 000	1986
		193 ON APR 9	10.0 B ON NOV 9	1 630 000	
				1 670 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO 05MJ005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	306	183	120	58.6	24.6	27.6	27.4	15.9	---	1970
1971	15.1	14.6	21.0	126	126	118	76.2	43.1	18.0	27.0	33.3	26.9	53.9	1971
1972	24.5	25.2	84.6	199	232	106	42.6	22.7	19.0	22.7	24.9	19.7	68.9	1972
MEAN	19.8	19.9	42.8	163	221	136	79.6	41.5	20.5	25.8	28.5	21.2	60.4	MEAN

LOCATION - LAT 49 45 32 N LONG 98 36 32 W DRAINAGE AREA 152 000 km^2 REGULATED

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO 05MJ005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	1970
1971	---	198 ON APR 18	13.78 ON FEB 3 *	1 700 000	1971
1972	---	328 ON APR 22 *	16.18 ON DEC 29	2 110 000	1972
				1 910 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO 05ME001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	1 55	2 83	135	128	52 5	96 5	72 2	29 9	15 9	14 3	6 00	---	1913
1914	2 85	2 88	3 81	49 2	103	33 5	10 2	3 86	3 34	4 08	3 71	2 09	18 6	1914
1915	1 27	1 78	1 84	15 7	7 00	7 28	10 5	4 23	3 38	3 95	3 82	2 12	5 17	1915
1916	1 42	1 42	1 27	40 9	23 8	51 6	26 4	11 1	7 55	8 88	9 37	3 18	15 6	1916
1917	1 31	1 07	1 47	25 2	112	31 2	42 4	10 8	7 80	4 86	5 14	1 87	20 6	1917
1918	1 55	1 41	4 20	30 5	12 8	13 5	15 2	9 78	6 83	5 27	5 04	3 08	9 22	1918
1919	2 38	2 15	1 98	27 4	19 9	11 3	28 0	8 18	7 60	8 46	4 88	2 88	10 5	1919
1920	2 85	2 85	2 79	35 0	152	38 9	11 2	5 70	4 71	5 29	7 29	3 72	22 7	1920
1921	2 43	2 18	2 76	86 8	91 6	78 0	89 5	35 8	29 8	41 4	42 6	14 5	43 1	1921
1922	8 15	5 20	5 45	185	323	95 2	24 3	12 6	9 94	6 14	9 15	4 87	57 7	1922
1923	3 81	3 72	3 80	58 6	187	58 8	57 7	24 1	9 30	8 88	8 72	4 19	35 8	1923
1924	2 52	2 30	2 76	21 8	35 9	16 4	9 55	13 7	8 20	9 18	8 42	4 07	10 3	1924
1925	3 00	2 44	3 53	109	33 2	30 8	21 0	7 76	5 17	5 87	4 15	2 83	19 0	1925
1926	1 71	1 79	3 59	51 5	23 6	14 6	6 13	3 25	5 73	11 0	9 71	3 95	11 5	1926
1927	3 10	2 54	2 62	119	134	49 9	33 8	18 4	16 6	20 4	11 8	5 21	38 1	1927
1928	3 71	2 96	23 6	87 2	46 9	30 8	36 0	10 6	4 89	4 52	3 01	2 49	21 8	1928
1929	2 21	1 91	2 27	30 3	23 2	12 1	6 70	3 86	3 24	3 88	3 98	3 14	8 05	1929
1930	2 04	1 82	2 79	26 9	14 3	10 5	5 72	3 34	2 85	3 38	3 27	2 15	5 65	1930
1931	1 87	1 87	2 63	24 5	6 80	4 83	3 83	2 82	2 71	3 08	2 09	0 821	4 80	1931
1932	0 850	1 08	1 32	45 3	10 2	5 82	7 44	4 04	3 38	---	---	---	---	1932
1942	---	---	---	---	---	---	6 95	5 82	6 18	---	---	---	---	1942
1943	---	---	---	---	---	---	8 32	3 93	2 84	2 83	---	---	---	1943
1944	---	---	---	---	22 4	17 3	4 92	3 24	1 54	2 35	2 40	---	---	1944
1945	---	---	---	---	6 70	4 92								
1946	---	---	---	19 1	18 8	6 87	8 31	3 53	3 20	4 15	---	---	---	1945
1947	---	---	---	35 6	12 3	5 47	7 09	2 10	1 88	3 54	---	---	---	1946
1948	---	---	---	---	51 4	28 1	35 1	7 51	7 34	7 47	---	---	---	1947
1949	---	---	---	---	157	16 8	18 4	13 1	4 43	3 28	---	---	---	1948
1950	---	---	---	14 2	6 92	13 9	6 25	4 72	2 45	2 71	---	---	---	1949
1951	1 60	1 84	1 80	---	---	---	---	---	---	---	---	---	---	1950
1952	1 92	1 89	1 88	36 4	29 0	12 0	8 88	7 26	3 10	4 07	3 92	2 14	---	1951
1953	1 52	1 74	2 86	54 8	57 2	14 7	9 47	8 56	3 88	13 4	10 1	4 00	13 9	1952
1954	3 81	3 09	3 12	39 1	21 8	6 97	4 77	2 78	3 42	3 57	2 45	1 82	9 12	1953
1955	3 86	3 34	3 24	114	84 6	33 6	76 5	44 7	20 8	12 8	12 4	5 85	23 1	1954
1956	3 15	1 48	2 78	28 0	171	129	82 9	16 8	19 6	23 8	22 5	8 80	37 3	1955
1957	3 09	4 51	5 27	47 9	187	55 9	22 0	9 80	4 12	4 82	4 52	2 91	34 4	1956
1958	1 85	1 84	2 51	16 8	94 3	81 0	25 1	10 6	7 29	8 11	7 58	3 98	28 9	1957
1959	1 44	1 10	3 03	23 5	6 54	14 3	6 84	3 81	2 83	3 10	2 82	2 17	16 0	1958
1960	2 48	1 78	2 82	82 6	47 7	3 32	2 18	1 33	2 28	2 42	3 07	1 57	3 80	1959
1961	1 22	1 08	2 13	4 84	4 83	7 03	7 26	2 34	2 49	3 93	4 80	3 44	5 88	1960
1962	0 966	0 586	2 25	28 0	24 1	22 0	7 75	1 80	1 13	1 78	1 71	1 28	12 9	1961
1963	0 888	0 914	3 56	16 6	7 21	2 35	0 857	0 352	0 582	1 56	1 51	1 42	1 91	1962
1964	1 70	1 79	2 50	12 0	11 9	5 08	1 81	1 28	1 59	1 81	2 13	2 11	5 95	1963
1965	1 35	1 27	1 41	35 3	23 3	5 47	4 82	1 71	1 52	2 41	1 78	1 48	4 03	1964
1966	2 85	2 04	2 93	57 6	52 8	3 71	1 66	1 48	1 07	2 10	2 32	1 47	3 84	1965
1967	2 32	1 70	2 33	12 5	57 3	29 4	9 75	4 57	3 55	4 76	3 05	2 30	9 88	1966
1968	1 28	1 45	5 78	23 2	5 45	14 1	3 82	1 81	0 610	1 22	1 74	1 48	4 47	1967
1969P	0 618	0 758	0 917	14 1	15 8	3 80	2 33	1 70	0 233	0 235	0 387	0 550	3 83	1968
1970	4 17	3 89	3 82	21 8	48 5	2 02	2 00	2 09	1 84	1 78	3 86	4 44	4 28	1969
1971	3 81	3 59	3 77	5 77	16 5	15 7	10 3	4 03	2 58	1 83	2 85	3 80	10 3	1970
1972	12 6	13 5	13 4	13 8	78 3	6 46	12 8	7 84	1 73	4 49	11 7	12 8	7 83	1971
1973	12 6	9 35	5 81	1 76	1 53	46 9	2 91	2 28	3 86	5 23	13 5	15 0	18 4	1972
1974	8 86	8 90	20 4	26 1	80 7	1 39	1 30	1 60	4 37	8 34	9 77	9 48	5 40	1973
1975	13 4	13 3	13 1	9 80	56 1	55 4	48 2	13 9	8 01	8 03	11 8	13 8	23 4	1974
1976	18 4	15 0	7 15	39 5	51 7	40 3	39 8	27 7	7 82	8 88	18 7	18 7	22 2	1975
1977	7 55	5 13	4 05	1 70	1 59	45 8	43 3	22 0	7 52	7 35	9 36	8 51	23 0	1976
1978	12 1	12 9	8 88	4 56	1 19	2 39	3 97	5 77	3 84	3 63	12 3	11 9	5 33	1977
1979	8 15	9 92	24 3	30 6	53 3	0 783	0 805	1 36	3 23	4 80	8 44	6 14	5 37	1978
1980	11 3	10 6	12 4	8 04	1 50	50 3	39 7	5 09	8 31	7 53	10 8	11 4	21 5	1979
1981	7 08	7 41	2 73	1 78	0 851	5 13	5 13	4 55	4 38	4 31	8 05	7 82	6 74	1980
1982	9 01	8 85	2 35	2 22	0 811	0 688	0 882	0 777	2 88	5 57	8 49	7 93	3 85	1981
1983	10 2	9 02	15 3	7 27	0 697	0 859	0 736	0 879	1 24	7 87	11 2	3 85	1982
1984	12 4	10 3	5 48	1 19	36 6	30 2	15 1	18 3	3 70	8 22	13 2	11 8	14 8	1983
1985	13.5	17 6	17 5	18 0	1 02 R	10 8	17 8	3 98	4 28	7 84	10 1	12 7	8 18R	1984
1986	15 8	14 8	16 3	28 5	41 7	27 1	4 67	4 50	8 85	5 43	17 5	15 5	15 8	1985
MEAN	4 85	4 46	5 47	38 5	33 3	15 5	3 17	5 82	5 49	5 88	13 7	14 2	14 2	1986
				49 7 R	24 3	18 4	8 75	5 74	6 22	7 85	5 73	15 0		MEAN

LOCATION - LAT 50 48 35 N DRAINAGE AREA 19 300 km²
LONG 101 28 10 W REGULATED SINCE 1969

R - REVISED SINCE JAN 1986

REMARKS - DISCHARGE RECORDS PRIOR TO JAN 1958 WERE COLLECTED AT MILLWOOD, APPROX 13 km DOWNSTREAM

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO 05ME001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	380 E ON APR 24	---	---	1914
		131 ON MAY 20	0.5868 ON DEC 29	587 000	
1915	---	---	---	---	1915
1916	---	34.0 ON APR 17	1.27 B ON JAN 1	167 000	1916
1917	---	83.0 ON APR 23	1.27 B ON MAR 1	494 000	1917
1918	---	160 ON MAY 18	0.6238 ON DEC 13	650 000	1918
1919	---	48.7 ON APR 5	1.08 B ON JAN 30	291 000	1919
		50.1 ON APR 20	1.42 B ON FEB 28	330 000	
1920	---	---	---	---	1920
1921	---	203 ON MAY 14	2.27 B ON MAR 3	719 000	1921
1922	---	138 ON MAY 3	2.15 B ON FEB 21	1 380 000	1922
1923	---	504 ON APR 29 *	3.74 B ON DEC 31	1 820 000	1923
1924	---	411 ON MAY 1	3.06 B ON DEC 31	1 130 000	1924
		50.7 ON APR 26	2.21 B ON JAN 23	324 000	
1925	---	---	---	---	1925
1926	---	142 ON APR 19	1.95 B ON DEC 28	598 000	1926
1927	---	79.6 ON APR 19	1.47 B ON JAN 15	361 000	1927
1928	---	357 ON APR 26	2.27 B ON MAR 5	1 110 000	1928
1929	---	132 B ON APR 13	2.27 B ON NOV 4	676 000	1929
		70.8 ON APR 29	1.84 B ON FEB 19	254 000	
1930	---	---	---	---	1930
1931	---	54.9 ON APR 13	1.25 B ON FEB 12	210 000	1931
1932	---	51.8 B ON APR 11	0.7088 ON DEC 31	151 000	1932
		53.2 B ON APR 13	0.5958 ON JAN 25	---	
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	---	---	---	1944
		20.8 B ON APR 21	2.52 ON SEP 20	---	
1945	---	---	---	---	1945
1946	---	31.1 B ON APR 3	---	---	1946
1947	---	84.8 B ON APR 4	---	---	1947
1948	---	116 ON APR 23	---	---	1948
1949	---	275 ON MAY 4	---	---	1949
		52.9 RB ON APR 2	---	---	
1950	---	---	---	---	1950
1951	---	75.0 ON APR 27	---	---	1951
1952	---	76.5 ON MAY 15	0.9918 ON FEB 28	439 000	1952
1953	---	69.4 B ON APR 12	1.33 B ON FEB 5	288 000	1953
1954	---	88.1 ON JUL 17	1.27 B ON JAN 10	728 000	1954
		264 ON JUN 25	2.83 B ON JAN 31	1 180 000	
1955	---	---	---	---	1955
1956	---	273 ON MAY 15	2.21 B ON DEC 19	1 080 000	1956
1957	---	224 ON MAY 16	0.7938 ON FEB 18	313 000	1957
1958	36.2 AT 15 30 CST ON APR 8	170 ON MAY 3	1.80 B ON DEC 31	503 000	1958
1959	50.7 AT 08 30 CST ON APR 8	35.1 ON APR 8	0.963 ON AUG 21	120 000	1959
		47.0 ON APR 8	0.6238 ON FEB 19	185 000	
1960	128 AT 02 30 CST ON APR 29 *	128 ON APR 28	0.884 ON SEP 23	407 000	1960
1961	---	6.37 ON APR 20	0.159 ON AUG 25 *	80 100	1961
1962	---	74.2 R ON APR 24	0.1988 ON FEB 8	188 000	1962
1963	---	21.1 B ON APR 19	0.2808 ON MAR 10	127 000	1963
1964	---	19.8 B ON APR 22	0.872 ON SEP 4	115 000	1964
1965	---	75.3 ON APR 21	1.22 B ON FEB 23	315 000	1965
1966	---	118 ON APR 25	1.84 B ON FEB 2	478 000	1966
1967	---	70.2 ON MAY 15	0.215 ON SEP 6	268 000	1967
1968	---	48.4 B ON APR 14	0.164 ON SEP 15	121 000	1968
1969	---	47.3 B ON MAY 4	0.5898 ON JAN 1	135 000	1969
1970	59.5 AT 09 43 CST ON MAY 3	58.5 ON MAY 2	1.18 B ON NOV 17	324 000	1970
1971	68.5 AT 19 48 CST ON MAY 14	65.1 ON MAY 14	0.506 ON MAY 4	241 000	1971
1972	112 AT 04 22 CST ON MAY 11	111 ON MAY 10	1.02 ON APR 3	582 000	1972
1973	---	15.1 B ON JAN 15	1.17 ON JUN 13	170 000	1973
1974	71.9 AT 00 23 CST ON MAY 22	71.1 ON MAY 21	5.83 ON OCT 2	739 000	1974
1975	96.6 AT 16 48 CST ON MAY 18	96.3 ON MAY 18	2.97 B ON APR 6	700 000	1975
1976	82.4 AT 06 55 CST ON APR 26	82.1 ON APR 26	6.31 B ON MAR 18	727 000	1976
1977	13.8 AT 16 00 CST ON NOV 7	13.6 ON NOV 7	1.01 ON JUN 8	188 000	1977
1978	---	13.9 B ON FEB 6	0.184 ON AUG 9	170 000	1978
1979	79.6 AT 21 29 CST ON APR 20	66.9 ON MAY 29	3.83 ON AUG 29	678 000	1979
1980	16.9 AT 21 52 CST ON APR 5	15.7 ON APR 5	0.612 ON MAY 23	213 000	1980
1981	10.58 AT 11 35 CST ON DEC 19	10.3 B ON DEC 19	0.422 ON AUG 20	121 000	1981
1982	---	14.5 B ON DEC 10	0.5138 ON APR 3	116 000	1982
1983	39.3 AT 21 31 CST ON JUN 13	38.1 ON MAY 9	2.22 B ON MAR 7	487 000	1983
1984	25.5 AT 11 48 CST ON JUN 30	25.4 ON JUN 30	0.572 ON APR 28	258 000R	1984
1985	42.7 AT 22 47 CST ON MAY 3	42.3 ON MAY 3	4.33 ON JUL 28	498 000	1985
1986	39.8 AT 08 38 CST ON MAR 30	36.2 ON MAR 30	3.03 ON JUL 22	446 000	1986
				472 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05DA007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.226	0.133	0.051	0.021	0.002	0.078	0.080	0.745	---	---	---	1959
1960	---	---	0.007	16.2	0.732	0.232	0.031	0	0	0	---	---	---	1960
1961	---	---	0.130	0.702	0.078	0.008	0	0	0	0	---	---	---	1961
1962	---	---	0	2.28	0.106	0.319	0.005	0.003	0.001	0	---	---	---	1962
1963	---	---	0.216	0.356	0.017	1.05	0.387	0.027	0	0	---	---	---	1963
1964	---	---	0	3.18	0.238	0.190	0.048	0.011	0.070	0.028	---	---	---	1964
1965	---	---	0	3.46	3.02	0.918	0.614	0.956	0.825	0.816	---	---	---	1965
1966	---	---	1.41	2.08	1.97	0.282	0.233	0.219	0.114	0.131	---	---	---	1966
1967	---	---	0.015	1.90	1.50	0.495	0	0	0	0	---	---	---	1967
1968	---	---	0.197	0.122	0.022	0.001	0	2.78	3.37	0.313	---	---	---	1968
1969	---	---	0	38.8	5.89	1.13	2.76	0.299	0.074	0.043	---	---	---	1969
1970	---	---	0	6.58	9.58	5.58	2.93	0.938	0.177	0.085	---	---	---	1970
1971	---	---	0	19.9	4.15	3.03	4.69	0.698	0.116	0.280	0.157	0.028	---	1971
1972	0.008	0	4.59	5.48	2.09	1.12	0.121	0.229	0.024	0.019	0.023	0.004	1.14	1972
1973	0	0.005	0.232	0.059	0.131	0.916	0.247	0.018	0.106	0.127	0.055	0.021	0.160	1973
1974	0.004	0.001	0.005	33.8	13.5	3.48	0.358	0.082	0.016	0.014	0.012	0.010	4.28	1974
1975	0.004	0	0.004	9.11	4.23	0.915	0.084	0.001	0.012	0.016	0.010	0.005	1.19	1975
1976	0.007	0.012	0.032	23.4	1.88	0.205	0.039	0.009	0.007	0.006	0	0	2.11	1976
1977	0	0	0.041	0.056	0.135	0.012	0.038	0.001	0.001	0.002	0.003	0.005	0.025	1977
1978	0.005	0.003	0.024	4.43	0.235	0.051	0.215	0.006	0.006	0.007	0.003	0	0.411	1978
1979	0	0	0.001	22.4	9.60	0.840	0.179	0.059	0.047	0.019	0.017	0.011	2.76	1979
1980	0.005	0.001	0.007	1.21	0.012	0.081	0.002	0.068	0.176	0.227	0.293	0.037	0.175	1980
1981	0.009	0.897	1.73	0.538	0.276	0.198	0.058	0.025	0.017	0.043	0.082	0.038	0.323	1981
1982	0.012	0.005	0.343	7.42	2.27	2.53	1.15	0.500	0.332	0.586	0.264	0.099	1.29	1982
1983	0.023	0.008	0.627	6.85	1.17	0.553	0.334	0.024	0.008	0.028	0.024	0.014	0.801	1983
1984	0.004	0.009	0.723	0.713	0.937	0.053	0.011	0.003	0	0	0.005	0.010	0.207	1984
1985	0.001	0	3.71	0.522	0.081	0.040	0.080	0.013	0.008	0.021	0.040	0.014	0.383	1985
1986	0.007	0.004	2.31	1.98	1.82	1.42	0.824	0.203	0.080	0.248	0.714	0.141	0.799	1986
MEAN	0.006	0.063	0.592	7.83	2.35	0.917	0.551	0.259	0.202	0.128	0.105	0.027	1.07	MEAN

LOCATION - LAT 49 06 16 N DRAINAGE AREA, 1 510 km²
LONG 99 19 22 W NATURAL FLOW

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05DA007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.83 ON OCT 25	0 ON MAR 1 *	---	1959
1960	---	47.0 ON APR 7	0 E ON MAR 1	---	1960
1961	---	2.12 B ON APR 4	0 B ON MAR 1	---	1961
1962	---	9.63 B ON APR 5	0 B ON MAR 1	---	1962
1963	---	5.52 ON JUN 4	0 ON MAR 1	---	1963
1964	---	15.8 B ON APR 5	0 B ON MAR 1	---	1964
1965	---	17.0 ON APR 13	0 B ON MAR 1	---	1965
1966	---	4.84 B ON MAR 31	0 B ON MAR 1	---	1966
1967	---	5.74 ON APR 27	0 B ON MAR 1	---	1967
1968	---	12.6 ON AUG 25	0 B ON MAR 1	---	1968
1969	---	207 B ON APR 12 *	0 B ON MAR 1	---	1969
1970	---	37.1 ON APR 30	0 B ON MAR 1	---	1970
1971	---	64.6 ON APR 11	0 B ON MAR 1	---	1971
1972	---	30.0 B ON MAR 17	0 B ON JAN 22	38 700	1972
1973	---	7.90 ON JUN 20	0 B ON JAN 1	5 030	1973
1974	---	158 ON APR 19	0.0018 ON JAN 10	135 000	1974
1975	45.0 AT 08:30 CST ON APR 29 *	41.5 ON APR 29	0 B ON FEB 3	37 600	1975
1976	---	79.0 B ON APR 4	0 B ON NOV 8	88 800	1976
1977	0.906 AT 07:47 CST ON MAY 22	0.776 ON MAY 22	0 B ON JAN 1	780	1977
1978	---	24.4 B ON APR 6	0 B ON NOV 30	13 000	1978
1979	---	158 B ON APR 22	0 B ON JAN 1	87 000	1979
1980	8.73 B AT 22:38 CST ON APR 5	8.48 B ON APR 6	0 B ON MAR 7	5 540	1980
1981	5.34 B AT 02:05 CST ON FEB 25	4.85 B ON FEB 25	0.0048 ON FEB 8	10 200	1981
1982	32.7 B AT 23:19 CST ON APR 12	26.5 B ON APR 13	0.0048 ON FEB 16	40 500	1982
1983	25.8 B AT 00:18 CST ON APR 1	17.5 B ON APR 1	0.0048 ON MAR 2	25 300	1983
1984	4.26 B AT 02:13 CST ON MAR 25	3.85 B ON MAR 25	0 ON AUG 19	6 550	1984
1985	24.3 B AT 01:10 CST ON MAR 20	21.6 B ON MAR 19	0 B ON JAN 8	12 100	1985
1986	5.17 B AT 22:35 CST ON MAR 18	6.44 B ON MAR 20	0.0038 ON FEB 15	25 200	1986
				33 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ805

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	0.011	0.009	0.002	0	---	---	---	---	1961
1962	---	---	---	---	0.110	0.056	0.002	---	---	---	---	---	---	1962
1963	---	---	---	---	0.118	0.093	0.003	0.003	0.002	---	---	---	---	1963
1964	---	---	---	---	0.063	0.008	0.002	0.002	0.002	---	---	---	---	1964
1965	---	---	---	0.011	---	0.062	0.001	0.004	0.103	---	---	---	---	1965
1966	---	---	---	0.081	0.105	0.008	0.003	0.037	0.003	0.003	---	---	---	1966
1967	---	---	---	0.049	0.123	0.056	0.003	0.001	0	0.004	---	---	---	1967
1968	---	---	---	---	0.046	0.025	0.029	0.033	0.018	0.008	---	---	---	1968
1969	---	---	---	0.089	0.058	0.082	0.136	0.027	0.032	0.032	---	---	---	1969
1970	---	---	---	---	0.201	0.192	0.039	0.006	0.014	---	---	---	---	1970
1971	---	---	---	---	0.056	0.176	0.055	0.011	---	---	---	---	---	1971
1972	---	---	---	---	0.109	0.013	0.008	0.008	0.009	---	---	---	---	1972
1973	---	---	---	---	0.029	0.056	0.014	0.033	0.043	0.058	---	---	---	1973
1974	---	---	---	0.148	0.152	0.084	0.007	0.006	0.010	0.011	---	---	---	1974
1975	---	---	---	---	0.106	0.038	0	0.032	0.124	---	---	---	---	1975
1976	---	---	---	0.094	0.033	0.020	0.019	0	0	---	---	---	---	1976
1977	---	---	---	---	0.027	0.013	0.059	---	0.047	0.025	---	---	---	1977
1978	---	---	---	---	0.044	0.003	0	0	0.007	0.006	---	---	---	1978
1979	---	---	---	---	0.122	0.109	0.008	0.008	0.006	0.005	---	---	---	1979
1980	---	---	---	---	---	0.021	0.050	0.087	0.010	---	---	---	---	1980
1981	---	---	---	---	0.022	0.030	0	0	0.001	---	---	---	---	1981
1982	---	---	---	---	0.069	0.026	0.020	0.019	0.016	---	---	---	---	1982
1983	---	---	---	---	0.126	0.035	0.095	0.009	0.008	---	---	---	---	1983
MEAN	---	---	---	0.079	0.086	0.052	0.024	0.016	0.022	0.017	---	---	---	MEAN

LOCATION - LAT 50 42 16 N
LONG 99 40 00 W

DRAINAGE AREA, 2.59 km²
REGULATED SINCE 1961

DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ805

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	---	---	1961
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	---	---	---	---	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	---	---	---	1977
1978	---	---	---	---	1978
1979	0.158 AT 23 33 CST ON MAY 18 *	0.158 ON MAY 18 *	---	---	1979
1980	---	---	---	---	1980
1981	0.122 AT 09 15 CST ON JUN 16	0.119 ON JUN 16	0 ON JUL 5 *	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

BARRINGTON RIVER BELOW FIRST RAPIDS - STATION NO. 06EB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	---	---	22.4	20.5	15.6	11.6	---	---	---	1974
1975	---	---	---	---	17.2	30.1	31.6	24.5	15.4	12.3	---	---	---	1975
1976	---	---	---	---	---	---	---	---	16.0	13.5	11.8	10.2	---	1976
1977	8.49	6.93	5.58	11.1	22.0	34.5	32.4	21.4	15.3	12.9	12.0	9.51	16.1	1977
1978	7.48	5.74	4.50	4.49	12.3	15.6	---	---	---	27.4	19.8	14.2	---	1978
1979	10.5	7.41	6.01	5.07	7.73	10.3	8.66	8.23	9.44	8.92	7.79	6.86	8.07	1979
1980	5.82	4.93	4.16	5.38	7.06	12.0	20.3	31.7	32.7	31.0	23.2	16.3	16.2	1980
1981	12.5	9.17	7.06	5.80	12.4	11.1	8.90	6.92	4.78	5.08	5.09	4.35	7.77	1981
1982	3.19	2.81	2.48	2.19	19.9	24.4	19.2	20.3	14.1	9.74	7.34	5.71	11.1	1982
1983	6.10	5.04	4.14	3.80	11.1	21.8	16.5	13.1	27.7	32.2	25.9	18.7	15.5	1983
1984	13.6	10.6	8.11	11.6	16.4	15.5	10.6	7.53	6.32	4.74	4.89	4.83	9.56	1984
1985	4.56	4.20	3.72	4.75	24.8	23.8	18.7	11.8	6.56	4.23	3.26	2.44	8.45	1985
1986	2.11	1.65	1.38	1.88	16.5	20.2	25.0	24.9	17.7	---	---	---	---	1986
MEAN	7.44	5.85	4.71	5.61	15.2	19.8	19.5	17.4	15.1	14.5	12.1	9.41	11.7	MEAN

LOCATION - LAT 56 45 50 N
LONG 99 58 25 W

DRAINAGE AREA, 1 770 km²
NATURAL FLOW

BARRINGTON RIVER BELOW FIRST RAPIDS - STATION NO. 05EB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	---	---	---	1974
1975	36.2 AT 18:49 CST ON JUN 30	35.7 ON JUN 30	---	---	1975
1976	---	---	---	---	1976
1977	38.2 AT 09:20 CST ON JUN 14	37.9 ON JUN 17	5.01 ON APR 1	507 000	1977
1978	---	---	---	---	1978
1979	12.4 AT 03:10 CST ON JAN 1	12.3 ON JAN 1	4.71 ON APR 10	255 000	1979
1980	38.4 AT 22:31 CST ON AUG 2	38.4 ON AUG 2	3.85 ON APR 13	514 000	1980
1981	19.2 AT 09:56 CST ON MAY 15	19.0 ON MAY 16	3.56 ON OCT 5	245 000	1981
1982	31.4 AT 12:00 CST ON MAY 7	31.4 ON MAY 7	1.73 ON APR 7	350 000	1982
1983	40.9 AT 12:00 CST ON SEP 21 *	40.9 ON SEP 21 *	3.34 ON APR 13	490 000	1983
1984	20.8 AT 21:05 CST ON APR 24	20.4 ON APR 24	4.11 ON OCT 16	302 000	1984
1985	29.4 AT 20:36 CST ON MAY 6	29.2 ON MAY 6	2.32 ON DEC 25	288 000	1985
1986	28.7 ON JUL 8	28.5 ON JUL 9	1.26 ON MAR 21 *	---	1986
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		370 000	MEAN

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	0.001	3.50	0.103	0.034	0	0	0	0	---	---	0.445	1976
1977	---	---	0.001	0.032	0.037	0.005	0.033	0	0.004	0.021	---	---	0.017	1977
1978	---	---	0	0.805	0.078	0.033	0.089	0.001	0.013	0.002	---	---	0.127	1978
1979	---	---	0	5.54	2.86	0.471	0.008	0	0	0	---	---	1.10	1979
1980	---	---	0	0.173	0.004	0	0	0.338	0.004	0.003	---	---	0.085	1980
1981	---	---	0.038	0.082	0.115	0.257	0	0	0	0.158	---	---	0.079	1981
1982	---	---	0.047	0.811	0.537	0.154	0.053	0.009	0	0.011	---	---	0.177	1982
1983	---	---	0.001	2.80	0.237	0.101	0.024	0	0	0	---	---	0.389	1983
1984	---	---	0.148	0.235	0.356	0.438	0	0	0	0.002	---	---	0.147	1984
1985	---	---	0.315	0.449	0.072	0.002	0.011	0.352	0.024	0.175	---	---	0.175	1985
1986	---	---	1.70	1.97	2.49	0.010	0.536	0.014	0	0	---	---	0.854	1986
MEAN	---	---	0.205	1.47	0.528	0.137	0.079	0.085	0.004	0.034	---	---	0.325	MEAN

LOCATION - LAT 50 04 00 N, LONG 98 37 40 W. DRAINAGE AREA, 274 km^2, NATURAL FLOW

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	24.1 B AT 20:30 CST ON APR 5	17.0 B ON APR 5	0B ON MAR 1 *	5 430	1976
1977	1.07 AT 20:44 CST ON MAY 14	0.425 ON JUL 11	0B ON MAR 1	356	1977
1978	5.898 AT 12:37 CST ON APR 20	2.92 B ON APR 20	0B ON MAR 1	2 630	1978
1979	45.0 AT 01:41 CST ON APR 23 *	43.1 ON APR 23 *	0B ON MAR 1	23 300	1979
1980	7.46 AT 07:02 CST ON AUG 21	4.96 ON AUG 21	0B ON MAR 1	1 380	1980
1981	1.02 AT 02:39 CST ON JUN 2	0.679 ON JUN 2	0B ON MAR 1	1 880	1981
1982	1.78 AT 22:23 CST ON MAY 19	1.86 ON MAY 18	0B ON MAR 1	3 740	1982
1983	---	7.78 B ON APR 5	0B ON MAR 1	8 220	1983
1984	2.438 AT 01:00 CST ON MAY 8	2.18 ON JUN 20	0B ON MAR 1	3 100	1984
1985	4.088 AT 08:29 CST ON APR 5	2.06 B ON MAR 25	0B ON MAR 1	3 700	1985
1986	---	16.6 ON MAY 6	0B ON MAR 1	18 100	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 880	MEAN

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.51	1.14	0.073	0	0.001	0	0	---	---	0.583	1974
1975	---	---	0	0.844	0.169	0.035	0.005	0.005	0.009	0.007	---	---	0.108	1975
MEAN	---	---	0	2.08	0.655	0.054	0.003	0.004	0.005	0.004	---	---	0.348	MEAN

LOCATION - LAT 50 03 37 N, LONG 98 41 45 W. DRAINAGE AREA, 257 km^2, NATURAL FLOW

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	15.4 B ON APR 18 *	0B ON MAR 1 *	12 300	1974
1975	---	2.578 ON APR 12	0B ON MAR 1	2 280	1975
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 300	MEAN

BELL RIVER NEAR BELLSITE - STATION NO 05LF002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.801	5.07	7.56	2.46	1.82	2.19	1.28	---	---	---	1954
1955	---	---	---	2.12	3.20	0.688	0.659	0.241	0.236	0.484	---	---	---	1955
1956	---	---	---	0.478	2.83	1.76	2.15	1.70	0.926	0.444	---	---	---	1956
1957	---	---	0.203	0.890	2.87	1.59	1.37	0.923	1.35	0.660	---	---	1.23	1957
1958	---	---	0.193	1.09	1.23	0.788	5.30	0.908	0.562	0.681	---	---	1.35	1958
1959	---	---	0.178	0.536	1.73	1.85	1.03	0.320	3.31	1.52	---	---	1.30	1959
1960	---	---	0.340	0.676	3.54	3.02	1.45	0.751	0.317	0.334	---	---	1.30	1960
1961	---	---	0.232	0.289	0.513	0.233	0.153	0.131	0.136	0.170	---	---	0.233	1961
1962	---	---	0.059	0.354	1.36	0.307	0.135	0.183	0.404	0.243	---	---	0.382	1962
1963	---	---	0.094	1.42	1.83	2.35	0.858	0.648	0.899	0.458	---	---	1.05	1963
1964	---	---	---	0.502	2.05	0.615	0.376	1.70	2.17	0.752	---	---	---	1964
1966	---	---	0.147	0.313	2.63	3.10	2.98	2.06	1.83	1.62	---	---	1.84	1965
1967	---	---	0.131	0.231	4.78	2.51	1.25	0.495	0.268	0.570	---	---	1.28	1967
1968	---	---	0.212	0.387	1.55	2.85	---	---	---	---	---	---	---	1968
1969	---	---	0.227	1.44	0.910	1.56	1.58	0.890	0.511	1.80	---	---	1.09	1969
1970	---	---	0.180	0.502	5.85	2.17	1.92	1.22	1.49	2.88	---	---	2.01	1970
1971	---	---	0.281	2.27	1.90	3.09	1.86	1.19	0.693	1.25	---	---	1.56	1971
1972	---	---	0.221	1.22	4.19	1.57	1.48	0.901	0.463	0.370	---	---	1.30	1972
1973	---	---	0.237	0.179	2.34	5.33	2.79	0.801	0.992	0.881	---	---	1.81	1973
1974	---	---	0.179	1.34	6.19	3.14	1.59	1.03	1.73	1.29	---	---	2.06	1974
1975	---	---	0.288	0.925	3.50	2.48	1.43	1.42	1.74	1.41	---	---	1.85	1975
1976	---	---	0.234	1.26	0.771	2.16	0.998	0.612	0.257	0.281	---	---	0.817	1976
1977	---	---	0.261	0.998	0.591	0.319	---	1.53	2.85	1.67	---	---	---	1977
1978	---	---	0.249	0.583	1.90	0.889	0.822	0.384	0.713	0.918	---	---	0.809	1978
1979	---	---	0.255	0.467	5.27	5.11	1.88	0.689	0.348	0.391	---	---	1.77	1979
1980	---	---	0.184	0.957	0.382	0.374	0.378	1.43	1.42	1.24	---	---	0.796	1980
1981	---	---	0.166	0.678	0.751	1.98	1.23	1.27	1.11	1.58	---	---	1.09	1981
1982	---	---	0.225	0.531	1.14	1.72	3.75	1.80	1.09	0.944	---	---	1.38	1982
1983	---	---	0.385	1.48	5.86	4.43	2.72	1.53	2.39	1.32	---	---	2.51	1983
1984	---	---	0.313	2.49	4.53	4.76	2.01	0.938	1.30	4.31	---	---	2.58	1984
1985	---	---	0.282	2.35	2.73	2.74	1.48	4.71	1.56	1.86	---	---	2.21	1985
1986	---	---	0.284	2.12	5.33	1.84	0.924	0.567	1.04	2.02	---	---	1.77	1986
MEAN	---	---	0.22	0.996	2.82	2.37	1.63	1.11	1.16	1.15	---	---	1.43	MEAN

LOCATION - LAT 52 36 10 N DRAINAGE AREA 170 km²
LONG 101 02 15 W REGULATED SINCE 1955

BELL RIVER NEAR BELLSITE - STATION NO 05LF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	14.4 ON MAY 23	---	---	1954
1955	---	8.86 ON MAY 7	---	---	1955
1956	---	6.71 ON MAY 16	---	---	1956
1957	---	6.12 ON MAY 3	---	---	1957
1958	128 AT 03 00 CST ON JUL 6 *	45.9 ON JUL 6 *	0.1988 ON MAR 1	26 100	1958
1959	14.2 AT 22 00 CST ON SEP 2	11.8 A ON JUN 28	0.1708 ON MAR 1	28 800	1959
1960	8.72 AT 06 30 CST ON JUN 21	8.07 ON MAY 13	0.1428 ON MAR 1	27 600	1960
1961	0.855 AT 01 00 CST ON MAY 20	0.810 ON MAY 13	0.255A ON APR 8	27 600	1961
1962	---	2.92 ON MAY 3	0.125 ON AUG 15	4 920	1962
1963	7.58 AT 07 00 CST ON JUN 13	5.40 ON JUN 13	0 E ON MAR 1 *	8 070	1963
1964	---	6.80 ON AUG 11	0.085E ON MAR 1	22 300	1964
1966	9.40 AT 17 15 CST ON AUG 28	6.09 ON JUL 15	---	---	1965
1967	13.7 AT 12 00 CST ON MAY 26	13.0 ON MAY 26	0.1198 ON MAR 1	38 900	1966
1968	---	---	0.1138 ON MAR 1	27 100	1967
1969	---	12.6 ON OCT 3	---	---	1968
1970	---	14.4 ON MAY 18	0.2278 ON MAR 1	23 000	1969
1971	---	11.0 ON JUN 6	0.1368 ON MAR 1	42 500	1970
1972	---	11.0 ON MAY 3	0.2278 ON MAR 28	33 000	1971
1973	---	38.6 ON JUN 19	0.1708 ON OCT 31	27 800	1972
1974	---	21.8 ON MAY 22	0.0858 ON APR 10	38 300	1973
1975	---	8.50 A ON MAY 7	0.1848 ON MAR 1	43 700	1974
1976	---	9.51 A ON JUN 14	0.2898 ON MAR 1	34 900	1975
1977	---	8.07 E ON SEP 26	0.2108 ON OCT 28	17 300	1976
1978	5.86 AT 00 01 CST ON MAY 3	5.10 ON MAY 3	---	---	1977
1979	---	18.2 E ON MAY 27	0.210 ON AUG 31	17 100	1978
1980	---	2.80 A ON SEP 4	0.2218 ON MAR 1	37 400	1979
1981	7.51 AT 23 43 CST ON JUN 4	5.77 ON JUN 24	0.170 ON AUG 2	16 800	1980
1982	44.5 AT 13 15 CST ON JUL 17	21.1 ON JUL 18	0.1248 ON MAR 1	23 200	1981
1983	19.7 AT 19 48 CST ON JUN 3	15.5 ON JUN 3	0.136 ON MAY 19	29 200	1982
1984	19.3 AT 19 14 CST ON JUN 7	14.0 ON JUN 7	0.3528 ON APR 7	53 100	1983
1985	32.9 AT 17 00 CST ON AUG 13	28.5 A ON AUG 13	0.301 ON MAR 1	54 500	1984
1986	8.20 AT 12 36 CST ON MAY 16	7.87 ON MAY 16	0.2358 ON APR 6	46 800	1985
			0.2258 ON MAR 2	37 500	1986
				30 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO 05RD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	---	---	60.8	44.4	67.9	82.8	---	1914
1915	85.6	49.3	38.6	36.5	115	227	118	88.1	46.6	37.7	36.5	51.1	74.3	1915
1916	53.9	45.8	38.7	37.7	104	258	217	162	94.1	88.7	67.5	68.4	101	1916
1917	52.9	44.2	41.5	30.9	34.5	41.2	68.7	139	255	---	---	---	---	1917
1918	---	---	---	---	---	---	---	283	216	---	---	---	---	1918
1919	---	---	---	---	---	---	---	---	---	77.1	92.4	88.6	---	1919
1920	88.3	48.5	37.2	36.3	94.2	250	258	130	75.4	51.2	47.7	52.4	95.8	1920
1921	47.6	40.6	34.5	34.4	97.8	388	319	147	85.2	123	178	145	136	1921
1922	96.0	68.6	51.5	53.8	171	271	178	182	127	80.9	56.0	50.5	114	1922
1923	49.9	43.5	35.6	---	---	---	---	---	---	---	---	---	---	1923
MEAN	61.7	48.8	39.7	38.3	103	238	193	153	121	89.0	78.0	77.0	104	MEAN

LOCATION - LAT 52 03 00 N
LONG 95 28 00 W

DRAINAGE AREA 15 900 km²
NATURAL FLOW

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO 05RD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	---	---	---	1915
1916	---	261 ON JUN 3	32.8 ON NOV 10	2 340 000	1916
1917	---	278 ON JUN 17	34.3 ON APR 12	3 210 000	1917
1918	---	300 ON SEP 29	29.2 ON APR 23 *	---	1918
1919	---	---	---	---	1919
1920	---	---	---	---	1920
1921	---	320 ON JUL 7	32.6E ON APR 3	3 030 000	1921
1922	---	428 ON JUN 21 *	31.1 ON APR 14	4 300 000	1922
1923	---	305 ON JUN 4	48.7E ON APR 14	3 800 000	1923
		52.4 ON JAN 7	31.1 ON MAR 31	---	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

3 300 000

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO 05RD007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	75.9	44.7	24.1	12.8	7.84	5.86	---	1957
1958	5.88	6.16	5.55	6.41	11.3	24.8	34.1	35.2	31.2	22.9	24.0	28.8	19.8	1958
1959	25.7	19.7	12.1	11.4	87.1	217	131	59.6	34.9	25.6	35.8	29.4	57.6	1959
1960	21.6	15.1	10.4	9.67	21.9	85.0	59.9	31.9	23.8	24.5	20.8	16.6	28.8	1960
1961	15.1	13.0	10.5	10.2	16.7	32.5	27.8	16.6	8.45	5.52	4.91	6.74	14.0	1961
1962	10.1	9.29	7.29	5.84	7.42	45.1	59.8	35.8	25.7	37.4	38.8	34.0	26.3	1962
1963	28.0	18.9	12.0	12.4	49.1	107	86.8	52.1	26.2	11.6	8.08	6.93	35.9	1963
1964	6.71	6.48	6.03	5.95	28.5	76.3	55.6	31.8	22.2	16.8	20.5	23.5	25.1	1964
1965	22.5	18.9	10.7	12.0	21.1	87.2	80.4	50.9	37.2	35.9	40.0	33.5	38.8	1965
1966	23.9	16.9	12.4	10.3	18.2	77.5	138	86.4	42.9	18.3	12.5	13.5	39.4	1966
1967	14.2	13.0	9.47	10.9	25.3	108	124	66.3	33.5	18.9	12.3	4.74	37.0	1967
1968	7.61	7.58	6.26	5.86	11.4	51.2	131	123	116	116	107	84.8	64.3	1968
1969	58.8	43.2	32.4	30.9	53.5	94.2	98.0	127	129	101	149	79.7	90.7	1969
1970	47.8	32.7	21.9	18.1	25.1	35.0	71.9	52.8	38.3	31.8	36.3	58.1	39.2	1970
1971	59.7	43.4	23.7	30.2	76.6	110	64.4	54.3	49.9	39.3	29.0	23.9	50.4	1971
1972	23.1	21.1	18.5	18.6	55.3	101	72.3	38.7	24.5	20.7	21.0	25.4	38.6	1972
1973	21.8	17.9	15.6	19.5	32.6	52.1	57.1	38.0	30.4	37.8	46.0	53.8	35.3	1973
1974	39.5	28.1	21.1	24.3	59.8	139	114	54.9	48.0	84.5	53.4	39.0	57.2	1974
1975	27.4	21.4	16.7	18.0	36.8	77.9	95.3	89.8	75.0	55.9	36.3	24.1	48.1	1975
1976	19.9	16.4	13.7	28.8	38.0	40.4	34.7	21.1	13.3	9.10	6.88	5.26	20.8	1976
1977	4.85	4.89	5.03	7.56	9.61	12.5	24.5	24.7	53.3	82.6	84.0	39.9	27.9	1977
1978	24.9	18.2	14.9	17.3	36.1	46.8	78.7	103	98.7	88.6	80.3	41.9	52.5	1978
1979	29.5	21.8	16.7	24.8	74.4	180	98.8	47.1	38.0	36.0	32.9	31.3	52.6	1979
1980	28.8	25.4	19.0	20.0	27.3	38.4	43.4	28.7	22.8	24.2	19.5	21.5	27.8	1980
1981	17.9	14.2	11.5	13.1	18.1	27.4	48.3	41.3	29.7	29.8	31.9	32.5	28.4	1981
1982	29.5	23.1	18.8	23.6	56.5	128	123	68.7	40.9	32.2	23.7	20.1	48.3	1982
1983	18.3	16.3	14.0	14.9	26.3	44.8	71.3	62.2	40.4	23.5	15.7	11.9	30.5	1983
1984	11.9	12.5	10.7	17.3	28.0	54.6	72.8	50.0	29.2	23.0	23.6	28.2	30.2	1984
1985	27.2	21.9	17.3	21.9	45.2	76.2	107	130	95.3	78.6	62.1	47.7	51.2	1985
1986	33.8	22.6	18.3	33.4	86.7	125	85.7	35.8	---	---	---	---	---	1986
MEAN	24.4	19.0	14.2	16.7	37.4	77.9	78.7	56.8	44.6	41.9	38.0	30.1	40.0	MEAN

LOCATION - LAT 52 12 10 N
LONG 98 05 10 W

NATURAL FLOW

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO 05RD007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	36.2 ON AUG 11	4.90 ON MAR 27	623 000	1958
1959	---	248 ON JUN 9 *	9.57 ON APR 9	1 810 000	1959
1960	---	79.6 ON JUN 23	8.30 ON APR 19	847 000	1960
1961	---	35.1 ON JUN 16	4.81 ON NOV 5	442 000	1961
1962	---	68.8 ON JUN 29	4.59 ON MAY 1	830 000	1962
1963	---	127 ON JUN 25	6.97 ON DEC 9	1 130 000	1963
1964	---	81.3 ON JUN 11	5.95 ON MAR 19	793 000	1964
1965	---	118 ON JUL 1	8.83 ON MAR 20	1 180 000	1965
1966	---	152 ON JUL 5	9.54 ON APR 19	1 240 000	1966
1967	---	175 ON JUN 23	3.74 ON DEC 8 *	1 170 000	1967
1968	---	144 ON JUL 21	5.27 ON APR 7	2 030 000	1968
1969	---	206 E ON OCT 19	27.7 B ON APR 8	2 880 000	1969
1970	---	77.0E ON JUL 12	16.7 R ON APR 15	1 240 000	1970
1971	126 AT 17 00 CST ON JUN 3	126 ON JUN 5	18.6 R ON APR 6	1 590 000	1971
1972	108 AT 21 12 CST ON JUN 13	108 ON JUN 14	12.9 E ON APR 9	1 180 000	1972
1973	68.5 AT 16 17 CST ON JUL 3	68.2 ON JUL 3	14.7 R ON MAR 21	1 110 000	1973
1974	173 AT 10 10 CST ON JUN 25	170 ON JUN 23	17.6 ON APR 13	1 800 000	1974
1975	107 AT 11 18 CST ON JUN 30	106 ON JUL 1	14.9 E ON MAR 25	1 520 000	1975
1976	---	43.3 ON JUL 1	5.04E ON DEC 31	653 000	1976
1977	86.4 AT 18 20 CST ON OCT 19	86.1 ON OCT 19	4.87 ON JAN 30	880 000	1977
1978	108 AT 10 43 CST ON AUG 17	108 ON AUG 17	14.4 B ON MAR 23	1 660 000	1978
1979	198 AT 21 12 CST ON JUN 14 *	198 ON JUN 11	15.9 B ON MAR 21	1 660 000	1979
1980	47.5 AT 12 17 CST ON JUL 6	46.9 ON JUL 6	16.4 B ON APR 5	872 000	1980
1981	55.6 AT 11 48 CST ON JUL 6	50.4 ON JUL 4	10.7 B ON MAR 25	833 000	1981
1982	152 AT 19 21 CST ON JUN 25	151 ON JUN 24	16.8 B ON APR 12	1 580 000	1982
1983	91.0 AT 16 12 CST ON JUN 28	90.8 ON JUL 1	10.8 ON DEC 22	963 000	1983
1984	76.2 AT 17 41 CST ON JUL 4	76.1 ON JUL 5	9.60B ON MAR 26	957 000	1984
1985	141 AT 17 52 CST ON AUG 5	140 ON AUG 5	14.3 B ON APR 11	1 930 000	1985
1986	137 AT 18 36 CST ON JUN 12	137 ON JUN 8	---	---	1986
				1 280 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

BIG GRASS RIVER NEAR GLENELLA - STATION NO 05LL015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.22	3.52	1.85	0.480	0.267	2.89	0.712	---	---	1.70	1965
1966	---	---	0.780	8.80	5.69	1.22	0.410	0.499	0.130	0.054	---	---	2.16	1966
1967	---	---	0.002	10.0	5.03	0.497	0.412	0.041	0	0	---	---	1.98	1967
1968	---	---	0.459	2.72	2.54	0.485	0.534	1.33	0.740	0.318	---	---	1.14	1968
1969	---	---	0	21.1	3.29	2.51	5.65	0.540	0.206	0.227	---	---	4.14	1969
1970	---	---	0	12.1	24.3	2.08	1.25	0.052	0.001	0.210	---	---	5.00	1970
1971	---	---	0.001	4.88	1.09	8.35	6.17	0.165	0.048	1.01	---	---	2.69	1971
1972	---	---	1.24	14.1	3.73	0.489	0.039	0	0	0	---	---	2.42	1972
1973	---	---	0.336	0.351	0.384	0.593	0.013	0	0.021	0.002	---	---	0.211	1973
1974	---	---	0	15.6	14.3	1.81	0.106	0	0	0	---	---	3.96	1974
1975	---	---	0	2.73	3.21	1.66	0.326	3.65	23.1	5.12	---	---	4.83	1975
1976	---	---	0.168	51.5	2.48	1.04	0.227	0	0	0	---	---	6.79	1976
1977	---	---	0	0.271	0.373	0.144	0.141	0	0.248	0.137	---	---	0.164	1977
1978	---	---	0	3.02	1.44	0.400	0.048	0	0.014	0.013	---	---	0.611	1978
1979	---	---	0	20.6	22.0	2.40	0.225	0.013	0.005	0.001	---	---	5.62	1979
1980	---	---	0	1.14	0.098	0.002	0	2.84	1.82	0.729	---	---	0.801	1980
1981	---	---	0.621	0.744	0.486	0.664	0.225	0.094	0.003	0.159	---	---	0.373	1981
1982	---	---	0.039	7.74	1.63	0.412	0.751	0.187	0.005	0.185	---	---	1.35	1982
1983	---	---	0.003	12.2	2.87	1.07	0.387	0.006	0	0	---	---	2.04	1983
1984	---	---	0.109	0.370	0.577	1.23	0.267	0	0	0.190	---	---	0.340	1984
1985	---	---	0.707	5.57	0.803	0.646	0.358	0.845	0.437	0.588	---	---	1.21	1985
1986	---	---	1.61	8.28	23.4	0.969	1.25	0.358	0.125	0.690	---	---	4.80	1986
MEAN	---	---	0.276	9.45	5.60	1.39	0.876	0.477	1.35	0.470	---	---	2.47	MEAN

LOCATION - LAT 50 30 22 N
LONG 98 58 15 W
DRAINAGE AREA, 1 050 km^2
NATURAL FLOW

BIG GRASS RIVER NEAR GLENELLA - STATION NO 05LL015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	15.0 ON APR 16	0.8 ON MAR 1 *	36 000	1965
1966	---	26.9 ON APR 3	0.8 ON MAR 1	45 800	1966
1967	---	41.9 ON APR 17	0.8 ON MAR 1	41 900	1967
1968	---	7.70 ON MAY 16	0.8 ON MAR 1	24 100	1968
1969	---	83.5 ON APR 14	0.8 ON MAR 1	87 800	1969
1970	---	106 ON APR 30	0.8 ON MAR 1	105 000	1970
1971	---	38.2 ON JUL 2	0 ON AUG 17	57 000	1971
1972	---	28.6 ON APR 15	0 ON JUL 9	51 300	1972
1973	3.94 AT 14 42 CST ON JUN 20	3.57 ON JUN 20	0 ON JUL 9	4 480	1973
1974	59.7 B AT 17 45 CST ON APR 20	53.1 ON APR 21	0.8 ON MAR 1	83 700	1974
1975	80.7 AT 17 33 CST ON SEP 23	78.4 ON SEP 23	0.8 ON MAR 1	104 000	1975
1976	112 AT 08 19 CST ON APR 10 *	111 ON APR 10 *	0 ON AUG 4	143 000	1976
1977	2.44 AT 00 57 CST ON SEP 27	2.30 ON SEP 27	0.8 ON MAR 1	3 480	1977
1978	9.00 AT 17 00 CST ON APR 25	8.92 ON APR 25	0.8 ON MAR 1	12 900	1978
1979	98.8 AT 14 09 CST ON APR 26	87.2 ON APR 26	0.8 ON MAR 1	115 000	1979
1980	19.5 AT 10 36 CST ON AUG 22	19.0 ON AUG 22	0.8 ON MAR 1	17 000	1980
1981	---	1.328 ON APR 4	0 ON SEP 11	7 900	1981
1982	26.0 AT 00 03 CST ON APR 15	25.5 ON APR 15	0.8 ON MAR 1	28 700	1982
1983	---	23.8 B ON APR 12	0.8 ON MAR 1	43 200	1983
1984	9.01 AT 10 37 CST ON JUN 24	8.75 ON JUN 24	0.8 ON MAR 1	7 210	1984
1985	12.2 AT 08 14 CST ON APR 7	11.3 ON APR 7	0.8 ON MAR 1	25 500	1985
1986	70.1 AT 01 10 CST ON MAY 9	69.2 ON MAY 9	0 ON SEP 14	97 300	1986
				52 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRCH RIVER AT BIRCH RIVER - STATION NO 05LE003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	6.43	4.08	1.36	1.02	1.59	0.897	---	---	---	1954
1955	---	---	---	2.10	2.37	0.805	0.336	0.334	0.273	0.377	---	---	---	1955
1956	---	---	0.255	0.340	3.89	1.67	1.63	0.259	0.206	0.239	---	---	1.05	1956
1957	---	---	0.129	1.04	3.07	0.880	0.383	0.377	0.840	0.207	---	---	0.814	1957
1958	---	---	0.156	0.838	0.888	0.519	2.55	0.184	0.203	0.279	---	---	0.701	1958
1959	---	---	0.028	0.889	1.19	1.01	0.557	0.180	0.573	0.498	---	---	0.615	1959
1960	---	---	0.231	0.856	3.19	1.72	0.614	0.871	0.210	0.156	---	---	0.881	1960
1961	---	---	0.028	0.043	0.308	0.178	0.129	0.125	0.156	0.183	---	---	0.144	1961
1962	---	---	0	0.180	0.627	0.283	0.213	0.219	0.420	0.311	---	---	0.279	1962
1963	---	---	0	0.294	1.97	2.10	0.527	0.285	0.324	0.357	---	---	0.730	1963
1964	---	---	---	0.488	1.27	0.311	0.585	0.778	0.474	0.484	---	---	---	1964
1965	---	---	0	0.796	3.50	4.23	1.11	0.537	1.89	0.832	---	---	1.80	1965
1966	---	---	0.170	0.374	3.34	1.89	1.79	1.80	2.01	---	---	---	---	1966
1967	---	---	0.234	0.238	5.56	1.28	0.158	0.128	0.088	0.388	---	---	1.01	1967
1968	---	---	0.208	0.409	0.888	1.84	2.71	2.89	0.814	0.561	---	---	1.28	1968
1969	---	---	0.249	2.09	0.912	0.882	0.845	0.490	0.380	2.89	---	---	1.06	1969
1970	---	---	0.080	0.418	3.88	1.80	1.53	0.338	0.248	1.21	---	---	1.17	1970
1971	---	---	0.190	1.61	1.16	1.93	0.618	0.358	0.214	0.472	---	---	0.814	1971
1972	---	---	0.215	0.927	4.56	0.715	0.890	0.280	0.253	0.262	---	---	1.01	1972
MEAN	---	---	0.136	0.775	2.57	1.45	0.979	0.591	0.578	0.586	---	---	0.884	MEAN

LOCATION - LAT 52 22 54 N LONG 101 06 02 W DRAINAGE AREA, 131 km^2 NATURAL FLOW

BIRCH RIVER AT BIRCH RIVER - STATION NO 05LE003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	5.41 ON MAY 3	---	---	1955
1956	---	10.1 ON MAY 16	0.142 ON AUG 19	22 300	1956
1957	---	8.16 ON MAY 1	0.1138 ON MAR 1	17 200	1957
1958	---	15.1 ON JUL 6	0.113 ON AUG 15	14 900	1958
1959	---	4.81 ON APR 28	0.0288 ON MAR 1	13 000	1959
1960	---	5.06 ON MAY 24	0.158RE ON SEP 5	20 800	1960
1961	---	0.388 ON MAY 6	0.0288 ON MAR 1	3 040	1961
1962	---	2.23 ON MAY 1	0.8 ON MAR 1 *	5 910	1962
1963	---	4.84 ON JUN 15	0.8 ON MAR 1	15 800	1963
1964	---	3.48 ON MAY 11	---	---	1964
1965	---	10.1 ON JUN 3	0.8 ON MAR 1	34 000	1965
1966	---	10.5 ON AUG 30	---	---	1966
1967	---	15.4 ON MAY 26	0.011 ON JUL 11	21 500	1967
1968	---	20.2 ON JUL 30 *	0.1708 ON MAR 18	27 000	1968
1969	---	5.74 ON OCT 4	0.227 ON SEP 19	22 300	1969
1970	---	8.44 ON MAY 7	0.0088 ON MAR 1	24 700	1970
1971	---	5.89 ON JUN 10	0.176 ON SEP 25	17 200	1971
1972	---	10.9 ON MAY 2	0.176 ON OCT 31	21 500	1972
				18 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1 1986

BIRCH RIVER NEAR BIRCH RIVER - STATION NO 05LE010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.231	0.199	1.99	4.44	0.737	0.202	0.490	0.543	---	---	1.10	1973
1974	---	---	0.161	1.40	5.44	1.75	0.856	0.870	1.27	0.712	---	---	1.56	1974
1975	---	---	0.236	0.972	3.87	2.42	0.819	0.435	0.704	0.767	---	---	1.28	1975
1976	---	---	0.219	1.27	0.598	1.78	0.710	0.421	0.224	0.276	---	---	0.684	1976
1977	---	---	0.209	0.892	0.508	0.285	---	1.06	2.52	1.06	---	---	---	1977
1978	---	---	0.183	0.822	1.37	0.728	0.671	0.189	0.684	0.577	---	---	0.852	1978
1979	---	---	0.183	0.654	5.41	2.92	0.380	0.123	0.218	0.415	---	---	1.41	1979
1980	---	---	0.072	0.800	0.337	0.322	0.377	2.46	2.00	0.912	---	---	0.908	1980
1981	---	---	0.230	0.851	1.10	0.988	1.00	2.27	0.800	2.15	---	---	1.15	1981
1982	---	---	0.098	0.776	1.21	1.06	2.19	0.475	0.311	0.777	---	---	0.886	1982
1983	---	---	0.217	3.55	4.42	3.16	2.15	0.338	1.04	0.785	---	---	1.85	1983
1984	---	---	0.291	3.97	4.74	3.33	0.353	0.212	0.502	1.64	---	---	1.87	1984
1985	---	---	0.424	3.76	1.85	2.06	0.851	1.99	0.862	0.946	---	---	1.56	1985
1986	---	---	0.197	2.61	2.47	1.21	0.519	0.823	0.771	0.813	---	---	1.17	1986
MEAN	---	---	0.211	1.61	2.58	1.89	0.893	0.848	0.871	0.882	---	---	1.24	MEAN

LOCATION - LAT 52 22 25 N DRAINAGE AREA, 136 km²
LONG 101 05 00 W NATURAL FLOW

BIRCH RIVER NEAR BIRCH RIVER - STATION NO 05LE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	10.6 AT 02:39 CST ON JUN 4	10.2 ON JUN 4	0.0998 ON APR 18	23 200	1973
1974	12.8 AT 04:34 CST ON MAY 22	11.8 ON MAY 22	0.142 ON AUG 11	33 000	1974
1975	8.47 AT 01:18 CST ON MAY 8	7.80 ON MAY 8	0.153 ON JUL 30	27 100	1975
1976	5.04 AT 17:20 CST ON JUN 26	4.80 ON JUN 26	0.133 ON AUG 8	14 500	1976
1977	5.49 AT 18:02 CST ON SEP 26	4.76 ON SEP 26	---	---	1977
1978	3.37 AT 19:14 CST ON APR 28	2.73 ON MAY 2	0.108 ON AUG 29	13 800	1978
1979	22.8 AT 03:15 CST ON MAY 26 *	21.0 ON MAY 26 *	0 ON SEP 17 *	30 000	1979
1980	11.1 AT 09:12 CST ON SEP 4	7.33 ON SEP 4	0.0568 ON MAR 1	19 200	1980
1981	8.83 AT 22:35 CST ON AUG 4	7.63 ON AUG 4	0.053 ON SEP 10	24 400	1981
1982	15.9 AT 21:40 CST ON JUL 17	11.5 ON JUL 18	0 ON JUL 1	18 300	1982
1983	---	19.2 B ON APR 25	0.135 ON AUG 7	41 200	1983
1984	10.8 AT 18:40 CST ON JUN 7	8.96 ON MAY 19	0.028 ON AUG 31	39 600	1984
1985	16.7 AT 19:15 CST ON APR 21	15.2 ON APR 21	0.340 ON AUG 7	33 000	1985
1986	5.09 AT 16:16 CST ON MAY 14	4.35 ON SEP 28	0.1488 ON MAR 3	24 800	1986
				28 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO 05PJ001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	26.1	17.8	5.43	2.74	2.07	1.54	1.98	1.75	---	1960
1961	1.87	1.68	---	---	9.15	5.81	2.63	1.47	0.638	0.397	1.13	1.59	---	1961
1962	1.92	1.84	1.62	3.13	14.0	17.6	12.2	11.4	14.3	7.07	4.22	6.45	9.04	1962
1963	4.11	4.33	---	11.2	17.2	15.7	12.4	5.83	5.29	4.55	1.96	1.79	---	1963
1964	1.33	1.83	2.28	6.44	26.4	11.7	3.95	2.78	11.0	10.0	3.43	3.11	11.7	1964
1965	3.62	2.97	1.90	8.08	28.4	14.9	8.34	3.81	2.16	2.67	4.01	4.57	13.3	1965
1966	4.20	3.87	3.85	9.00	20.2	16.7	6.98	2.71	2.92	2.14	2.45	2.96	12.5	1966
1967	3.40	3.54	3.08	9.86	22.2	11.1	4.97	2.69	0.813	0.213	0.172	0.208	11.6	1967
1968	0.450	0.805	0.685	2.62	5.61	10.4	9.13	6.11	8.86	8.49	8.74	6.35	4.78	1968
1969	4.81	4.79	3.78	8.19	9.99	6.77	7.36	5.19	4.43	9.62	7.81	5.41	7.18	1969
1970	4.32	3.80	3.40	4.82	19.3	21.6	9.43	5.26	4.47	6.58	10.2	8.46	12.2	1970
1971	5.74	4.24	3.28	9.40	16.8	8.12	4.45	1.89	1.66	1.93	4.35	4.78	8.40	1971
1972	3.98	3.36	3.03	5.60	12.5	7.71	3.92	2.60	2.38	3.04	4.33	4.51	7.24	1972
1973	3.73	3.01	2.68	6.42	8.39	7.30	7.13	7.30	11.1	13.6	11.8	8.21	6.19	1973
1974	5.29	4.67	3.93	10.2	47.5	29.6	8.11	4.22	11.2	7.52	4.66	3.72	22.9	1974
1975	3.08	3.04	2.89	4.74	13.2	10.1	6.31	2.87	2.05	1.61	1.10	0.976	7.74	1975
1976	1.28	1.57	1.86	6.94	11.5	10.9	7.49	2.17	0.617	0.140	0.041	0.101	7.78	1976
1977	0.106	0.199	0.318	0.594	1.59	5.82	8.71	5.52	10.2	8.71	5.73	5.44	2.06	1977
1978	4.48	3.51	2.64	5.73	18.6	14.7	12.3	6.94	3.72	2.00	1.15	0.917	10.4	1978
1979	---	---	1.14	5.18	22.2	16.9	7.05	3.60	1.73	0.876	---	---	11.3	1979
1980	---	---	2.10	5.82	8.33	4.22	1.78	0.923	0.958	2.71	---	---	5.07	1980
1981	---	---	1.83	2.09	2.27	4.10	---	---	---	---	---	---	2.56	1981
1982	---	---	1.77	4.68	10.6	11.3	---	---	---	---	---	---	7.09	1982
1983	---	---	1.76	3.03	5.67	6.58	---	---	---	---	---	---	4.25	1983
1984	---	---	1.01	4.41	8.29	12.9	---	---	---	---	---	---	6.62	1984
1985	---	---	2.55	5.09	12.2	7.80	---	---	---	---	---	---	6.86	1985
1986	---	---	2.72	12.7	24.6	11.4	---	---	---	---	---	---	12.9	1986
MEAN	3.21	2.94	2.34	6.23	15.7	11.6	7.15	4.21	4.88	4.54	4.17	3.76	8.88	MEAN

LOCATION - LAT 50 27 46 N DRAINAGE AREA 1 070 km²
LONG 95 24 50 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO 05PJ001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	30.9 E ON JUN 2	---	---	1961
1962	---	---	---	---	1962
1963	---	23.8 ON JUN 1	---	---	1963
1964	---	19.9 ON MAY 24	1.44 E ON MAR 1	95 300	1964
		33.7 ON MAY 12	---	---	
1965	---		1.98 E ON MAR 1	124 000	1965
1966	---	33.4 E ON MAY 7			1966
1967	---	26.3 ON MAY 28	1.33 E ON MAR 1	141 000	1967
1968	13.0 AT 15 10 CST ON JUN 20	24.2 ON MAY 12	3.77 E ON MAR 9	131 000	1968
1969	14.4 AT 02 46 CST ON APR 26	12.5 ON JUN 19	2.72 E ON APR 3	122 000	1969
		13.9 ON APR 26	0.4811E ON MAR 12	50 500	
1970	---		3.17 ON APR 7	75 800	1970
1971	20.5 AT 07 00 CST ON MAY 7	29.7 E ON JUN 3			1971
1972	13.4 AT 01 42 CST ON MAY 12	20.1 ON MAY 5	3.11 E ON APR 1	129 000	1972
1973	---	13.2 ON MAY 8	3.09 ON MAR 25	99 100	1973
1974	---	8.71 ON APR 27	2.83 ON APR 9	76 300	1974
		85.7 A ON MAY 25 *	2.40 ON MAR 21	85 200	
1975	14.3 AT 04 43 CST ON MAY 19		3.37 ON APR 10	241 000	1975
1976	15.4 AT 17 00 CST ON JUN 18	14.3 ON MAY 19			1976
1977	---	14.8 ON JUN 19	2.73 ON APR 12	81 800	1977
1978	20.3 AT 02 27 CST ON MAY 19	10.7 ON JUN 24	1.70 ON MAR 1	82 000	1978
1979	24.5 AT 08 14 CST ON MAY 19	19.9 ON MAY 15	0.275 ON MAR 1 *	21 800	1979
		24.4 ON MAY 19	2.25 ON MAR 30	110 000	
1980	11.4 AT 11 51 CST ON APR 28		0.972 ON MAR 11	120 000	1980
1981	---	11.3 ON APR 26			1981
1982	12.8 AT 13 45 CST ON JUN 14	8.74 ON JUN 30	1.88 ON APR 4	53 400	1982
1983	6.87 AT 18 09 CST ON JUN 26	12.8 ON JUN 14	1.75 ON MAR 23	27 000	1983
1984	17.2 AT 21 36 CST ON JUN 22	6.82 ON JUN 26	1.34 B ON MAR 21	74 500	1984
		16.3 ON JUN 20	1.31 B ON MAR 1	44 800	
1985	14.0 AT 12 11 CST ON MAY 15		0.9078 ON MAR 12	89 700	1985
1986	31.0 AT 18 38 CST ON MAY 7 *	13.8 ON MAY 14			1986
		31.0 ON MAY 7	2.24 B ON MAR 21	72 300	
			2.45 B ON MAR 11	138 000	
				93 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRDTAIL CREEK AT BIRTLE - STATION NO 05ME002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	8.23	1.72	0.363	0.211	0.237	0.532	0.283	0.142	---	1914
1915	0	0	0	1.28	0.720	0.959	1.37	0.142	0.885	1.42	1.28	0.586	0.704	1915
1916	0	0	0	8.22	2.82	8.78	6.34	0.849	0.826	1.21	0.928	0.343	2.50	1916
1917	0.283	0	0	5.21	6.48	2.12	1.44	0.082	0.081	0.151	0.121	0.051	1.34	1917
1924	---	---	---	---	---	---	---	---	---	2.34	---	---	---	1924
1925	---	---	---	19.3	4.92	8.15	---	---	---	---	---	---	---	1925
1926	---	---	---	5.10	2.01	1.35	1.33	0.182	0.974	---	---	---	---	1926
1928	---	---	---	---	4.93	6.62	5.43	1.41	0.558	---	---	---	---	1928
MEAN	0.094	0	0	7.82	4.02	4.53	2.71	0.478	0.527	1.13	0.853	0.276	1.51	MEAN

LOCATION - LAT 50 25 15 N, LONG 101 02 40 W
DRAINAGE AREA 1 320 km^2
NATURAL FLOW

BIRDTAIL CREEK AT BIRTLE - STATION NO 05ME002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	2.46 ON JUL 20	0E ON JAN 1 *	22 200	1915
1916	---	18.5 ON APR 17 *	0E ON JAN 1	79 100	1916
1917	---	15.6 ON APR 27	0E ON FEB 1	42 100	1917
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1928	---	---	---	---	1928
				47 800	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRDTAIL CREEK NEAR BIRTLE - STATION NO 05ME003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	2.35	1.04	0.974	1.62	---	---	1953
1954	---	---	0	5.46	6.31	9.30	8.09	1.58	3.50	4.78	1.86	---	4.98	1954
1955	---	---	0.080	16.9	13.5	7.83	3.19	0.878	0.442	0.589	---	---	5.38	1955
1956	---	---	0	3.78	17.3	8.02	8.07	1.58	1.47	1.28	---	---	5.19	1956
1957	---	---	1.11	6.70	8.16	1.77	0.555	0.846	0.366	0.407	---	---	2.21	1957
1958	---	---	0.223	2.94	0.835	0.281	0.300	0.010	0	0.054	---	---	0.549	1958
1959	---	---	0.089	1.22	1.03	1.10	1.36	0.174	0.409	1.63	---	---	0.878	1959
1960	---	---	0.011	8.49	5.48	4.49	0.231	0.018	0	0	---	---	2.44	1960
1961	---	---	0.003	0.899	1.25	0.082	0	0	0	0	---	---	0.279	1961
1962	---	---	0	1.87	0.574	0.323	0.098	0.018	0.005	0.015	---	---	0.334	1962
1963	---	---	0.688	2.02	0.804	1.12	0.377	0.289	0.197	0.107	---	---	0.887	1963
1964	---	---	0	3.90	3.11	0.577	0.052	0.032	0.001	0.003	---	---	0.953	1964
1965	---	---	0	3.98	3.52	1.91	0.351	0.032	1.06	0.770	---	---	1.44	1965
1966	---	---	0.344	6.68	6.80	1.63	3.10	0.584	0.111	0.286	---	---	2.40	1966
1967	---	---	0.080	4.03	7.84	1.03	0.266	0.097	0.003	0.077	---	---	1.68	1967
1968	---	---	1.32	2.63	0.835	0.221	0.270	0.435	0.199	0.184	---	---	0.759	1968
1969	---	---	0.088	5.86	1.22	0.802	3.19	0.694	0.136	0.495	---	---	1.80	1969
1970	---	---	0.189	4.99	15.8	2.54	1.85	0.929	0.428	0.807	---	---	3.55	1970
1971	---	---	0	9.53	1.94	6.09	2.96	1.22	0.327	1.58	---	---	2.84	1971
1972	---	---	0.306	14.6	8.18	0.880	0.087	0.142	0.058	0.084	---	---	2.74	1972
1973	---	---	0.487	1.06	0.718	1.06	0.203	0.027	0.519	1.31	---	---	0.689	1973
1974	---	---	0.202	14.2	18.5	4.06	0.359	0.130	0.214	0.364	---	---	4.73	1974
1975	---	---	0.181	5.18	8.15	2.88	0.681	1.08	5.87	4.27	---	---	3.62	1975
1976	---	---	0.603	20.5	4.50	5.07	2.21	0.443	0.344	0.855	---	---	4.38	1976
1977	---	---	0.382	1.90	2.06	0.877	1.43	0.510	1.08	1.38	---	---	1.17	1977
1978	---	---	0.297	7.37	3.31	1.14	0.424	0.075	0.825	0.838	---	---	1.74	1978
1979	---	---	0.131	12.1	17.5	5.49	0.485	0.071	0.007	0.081	---	---	4.46	1979
1980	---	---	0.006	3.18	0.572	0.022	0.335	0.831	0.301	0.858	---	---	0.734	1980
1981	---	---	1.18	1.72	0.957	1.53	0.149	0.038	0.059	0.022	---	---	0.703	1981
1982	---	---	0.013	3.71	1.59	0.269	0.019	0.022	0.001	0.704	---	---	0.785	1982
1983	---	---	0.002	7.25	6.08	2.08	1.79	0.190	0.001	0.002	---	---	2.18	1983
1984	---	---	0.528	1.67	1.84	1.27	0.185	0	0	0.183	---	---	0.879	1984
1985	---	---	0.052	5.73	1.45	1.84	0.185	1.84	0.785	1.83	---	---	1.77	1985
1986	---	---	1.86	15.2	11.0	2.10	1.21	0.298	0.283	0.472	---	---	4.01	1986
MEAN	---	---	0.307	5.46	5.42	2.41	1.33	0.485	0.612	0.787	1.74	---	2.21	MEAN

LOCATION - LAT 50 31 50 N DRAINAGE AREA 1 120 km²
LONG 100 57 00 W NATURAL FLOW

BIRDTAIL CREEK NEAR BIRTLE - STATION NO 05ME003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1953	---	---	---	---	1953
1954	---	15.9 ON JUL 7	0 B ON MAR 1 *	105 000	1954
1955	---	30.3 ON APR 11	0 B ON MAR 1	114 000	1955
1956	---	30.9 ON MAY 13	0 B ON MAR 1	110 000	1956
1957	---	22.6 ON APR 27	0.1428 ON MAR 1	45 700	1957
1958	---	8.188 ON APR 4	0 B ON MAR 1	11 800	1958
1959	---	7.65 ON JUL 4	0 B ON MAR 1	18 800	1959
1960	---	18.5 B ON APR 12	0 ON AUG 18	51 700	1960
1961	---	4.42 ON APR 28	0 B ON MAR 1	5 910	1961
1962	---	9.34 ON APR 20	0 ON MAR 1	7 070	1962
1963	---	4.308 ON APR 8	0 B ON MAR 1	14 100	1963
1964	---	9.178 ON APR 18	0 B ON MAR 1	20 200	1964
1965	---	11.5 B ON APR 15	0 B ON MAR 1	30 500	1965
1966	---	11.4 B ON APR 4	0.017 ON SEP 26	50 800	1966
1967	---	13.5 ON MAY 12	0 ON AUG 31	35 500	1967
1968	---	7.828 ON MAR 30	0.074 ON SEP 30	15 100	1968
1969	---	21.0 ON APR 17	0 ON SEP 20	40 200	1969
1970	---	43.9 ON MAY 5	0.037 ON SEP 10	75 100	1970
1971	---	21.4 B ON APR 13	0 B ON MAR 1	62 200	1971
1972	---	41.1 ON APR 23	0.022 ON JUL 20	57 800	1972
1973	---	3.09 ON OCT 7	0.001 ON AUG 18	14 200	1973
1974	48.4 AT 00 03 CST ON APR 22	43.0 ON APR 22	0.088 ON AUG 13	100 000	1974
1975	29.7 AT 06 36 CST ON MAY 1	29.2 ON MAY 1	0.079 ON AUG 4	76 500	1975
1976	49.8 AT 03 15 CST ON APR 11	46.2 ON APR 11	0.130 ON SEP 18	92 600	1976
1977	4.39 AT 11 55 CST ON MAY 8	4.33 ON MAY 8	0.022 ON AUG 29	24 800	1977
1978	---	12.8 ON APR 21	0 ON AUG 12	35 900	1978
1979	50.9 B AT 20 30 CST ON APR 21 *	48.7 B ON APR 21 *	0 ON AUG 31	84 300	1979
1980	---	5.318 ON APR 14	0 ON JUN 11	15 500	1980
1981	7.68 AT 14 17 CST ON APR 1	6.70 ON APR 1	0 ON AUG 3	14 900	1981
1982	8.858 AT 17 57 CST ON APR 20	8.678 ON APR 21	0 B ON MAR 1	16 800	1982
1983	---	21.6 B ON APR 22	0 B ON MAR 1	45 800	1983
1984	3.84 AT 21 24 CST ON JUN 24	3.64 ON JUN 25	0 ON AUG 7	14 400	1984
1985	10.6 AT 02 45 CST ON APR 24	10.3 ON APR 16	0.001 ON JUL 31	37 400	1985
1986	---	29.0 B ON APR 2	0.085 ON SEP 23	84 900	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		46 700	MEAN

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.051	1.72	0.742	1.02	0.818	0.188	0.109	0.147	---	---	0.595	1969
1970	---	---	0.057	0.944	3.29	0.398	0.257	0.056	0.101	0.121	---	---	0.654	1970
1971	---	---	0.018	1.36	0.271	0.954	0.336	0.080	0.100	0.290	---	---	0.422	1971
1972	---	---	0.032	1.22	0.484	0.153	0.048	0.028	0.018	0.032	---	---	0.250	1972
1973	---	---	0.115	0.153	0.179	0.185	0.012	0.017	0.048	0.090	---	---	0.100	1973
1974	---	---	0.014	1.27	1.44	0.343	0.085	0.029	0.048	0.049	---	---	0.408	1974
1975	---	---	0.011	0.827	0.583	0.548	0.159	0.890	1.50	0.400	---	---	0.608	1975
1976	---	---	0.112	2.02	0.389	0.386	0.081	0.023	0.005	0.047	---	---	0.372	1976
1977	---	---	0.024	0.114	0.200	0.113	0.083	0.005	0.224	0.078	---	---	0.105	1977
1978	---	---	0.038	0.721	0.240	0.132	0.026	0	0.052	0.041	---	---	0.186	1978
1979	---	---	0.027	0.932	2.63	0.457	0.124	0.081	0.048	0.086	---	---	0.548	1979
1980	---	---	0.022	0.258	0.041	0.001	0.015	0.286	0.137	0.136	---	---	0.109	1980
1981	---	0.078	0.213	0.205	0.094	0.172	0.032	0.002	0.023	0.105	---	---	0.105	1981
1982	---	---	0.001	1.01	0.166	0.095	0.285	0.030	0.017	0.117	---	---	0.210	1982
1983	---	---	0.021	0.982	0.475	0.255	0.128	0.003	0	0.019	---	---	0.231	1983
1984	---	---	0.057	0.205	0.209	0.387	0.008	0	0.006	0.207	---	---	0.134	1984
1985	---	---	0.009	0.884	0.228	0.235	0.191	0.379	0.198	0.276	---	---	0.286	1985
1986	---	---	0.349	1.18	2.38	0.371	0.805	0.225	0.150	0.187	---	---	0.679	1986
MEAN	---	0.078	0.085	0.887	0.778	0.344	0.182	0.127	0.155	0.134	---	---	0.332	MEAN

LOCATION - LAT 50 26 50 N DRAINAGE AREA, 82.9 km²
LONG 99 27 00 W NATURAL FLOW

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	10.7 ON JUN 27	0.026 ON SEP 14	12 800	1969
1970	15.3 AT 03:50 CST ON MAY 7 *	12.8 ON MAY 7 *	0.042 ON AUG 19	13 900	1970
1971	6.43 AT 20:53 CST ON JUN 6	4.93 ON APR 20	0.0198 ON MAR 1	8 940	1971
1972	---	4.13 ON APR 22	0 ON AUG 27 *	5 280	1972
1973	1.51 AT 11:19 CST ON OCT 4	0.833 ON MAY 7	0 ON JUL 12	2 110	1973
1974	8.24 AT 03:29 CST ON MAY 12	6.77 ON MAY 12	0.0148 ON MAR 1	8 640	1974
1975	14.8 AT 10:05 CST ON SEP 18	10.8 ON SEP 18	0.0118 ON MAR 1	12 800	1975
1976	---	5.32 ON APR 10	0 ON AUG 24	7 880	1976
1977	1.42 AT 00:36 CST ON SEP 26	1.27 ON SEP 26	0 ON JUL 9	2 210	1977
1978	2.37 AT 21:59 CST ON APR 24	1.99 ON APR 18	0 A ON AUG 1	3 300	1978
1979	14.8 AT 06:30 CST ON MAY 17	11.7 ON MAY 17	0 ON AUG 30	11 800	1979
1980	2.84 AT 04:48 CST ON AUG 21	2.18 ON AUG 21	0 ON MAY 29	2 320	1980
1981	1.14 AT 17:42 CST ON APR 1	0.860 ON MAR 31	0 ON JUL 27	2 230	1981
1982	---	3.95 B ON APR 15	0 B ON MAR 1	4 450	1982
1983	---	5.25 B ON APR 24	0 ON AUG 9	4 880	1983
1984	4.78 AT 08:28 CST ON JUN 23	3.85 ON JUN 23	0 B ON MAR 1	2 830	1984
1985	2.59 AT 01:10 CST ON APR 15	2.57 B ON APR 15	0 B ON MAR 1	8 280	1985
1986	13.0 A AT 20:00 CST ON MAY 5	8.31 E ON MAY 5	0.0328 ON MAR 13	14 400	1986
				7 030	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.510	12.4	18.8	5.30	0.881	0.778	0.834	0.234	0.504	0.231	---	1960
1961	0.153	0.135	0.485	8.46	10.7	2.78	0.140	0.036	0.024	0.080	0.151	0.189	1.95	1961
1962	0.161	0.184	0.285	4.01	17.1	15.7	5.32	12.9	8.74	2.90	2.53	3.74	6.24	1962
1963	0.818	1.03	0.789	14.3	15.9	15.3	3.45	4.81	1.57	0.835	0.490	0.241	4.85	1963
1964	0.074	0.151	0.174	7.47	29.8	4.97	4.45	5.38	13.0	5.85	1.82	0.786	5.18	1964
1965	0.830	0.452	0.529	10.7	24.0	9.92	2.97	1.30	1.14	2.49	2.19	1.24	4.82	1965
1966	0.895	0.581	0.805	11.4	19.8	10.6	3.94	0.482	0.031	0.190	1.37	1.86	4.29	1966
1967	1.21	0.867	0.558	15.1	17.8	4.61	0.680	0.917	0.102	0.049	0.282	0.105	3.53	1967
1968	0.043	0.047	0.122	3.26	12.4	9.13	5.13	7.21	10.5	5.29	3.77	1.15	4.83	1968
1969	0.628	0.783	0.757	12.0	8.56	5.89	4.86	1.23	0.984	4.31	2.18	0.726	3.58	1969
1970	0.397	0.509	0.476	4.67	16.6	10.0	2.29	0.507	0.187	2.88	5.10	2.01	3.80	1970
1971	1.08	0.704	0.557	14.5	11.2	2.02	2.01	0.241	0.061	0.835	1.75	1.86	3.03	1971
1972	0.870	0.556	0.205	10.4	11.1	1.44	0.596	0.859	1.31	1.53	1.82	0.922	2.83	1972
1973	0.851	0.683	0.884	8.04	5.51	15.3	3.05	3.32	2.44	8.38	5.71	3.14	4.71	1973
1974	1.30	0.873	0.598	18.1	31.8	7.18	0.407	0.095	2.00	1.18	1.00	0.885	5.45	1974
1975	0.531	0.556	0.487	4.18	9.78	3.86	1.54	2.67	2.56	1.61	1.13	0.287	2.43	1975
1976	0.184	0.208	0.286	11.0	8.19	2.91	1.82	0.189	0.049	0.010	0.015	0.023	1.89	1976
1977	0.016	0.021	0.050	0.772	0.568	3.44	5.88	5.83	17.5	5.33	2.38	1.15	3.55	1977
1978	0.581	0.381	0.357	8.29	14.4	9.53	8.30	2.09	1.08	0.868	0.471	0.198	3.88	1978
1979	0.146	0.117	0.227	12.8	25.6	14.7	1.35	0.442	0.345	0.232	0.323	0.315	4.73	1979
1980	0.314	0.322	0.242	6.83	5.81	0.737	0.249	0.084	1.31	3.48	1.98	0.735	1.83	1980
1981	0.549	0.472	0.477	0.582	0.913	4.82	3.05	4.12	2.54	2.39	2.97	1.25	2.00	1981
1982	0.359	0.285	0.284	7.34	8.58	5.27	5.32	2.31	0.514	1.33	0.978	0.822	2.86	1982
1983	0.414	0.322	0.410	2.46	5.89	7.88	4.83	0.484	0.086	0.151	0.246	0.201	1.95	1983
1984	0.187	0.173	0.179	2.91	4.37	7.51	3.31	0.837	0.203	3.00	5.16	1.70	2.54	1984
1985	0.942	0.583	0.685	---	---	2.88	0.955	3.08	3.18	3.83	3.89	1.55	---	1985
1986	0.878	0.554	0.499	18.7	15.7	1.55	0.195	0.027	0.183	1.30	1.03	1.03	3.29	1986
MEAN	0.537	0.444	0.434	8.71	13.4	6.89	2.84	2.29	2.89	2.27	1.93	1.01	3.84	MEAN

LOCATION - LAT 50 51 42 N DRAINAGE AREA, 712 km²
LONG 88 15 10 W NATURAL FLOW

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. OSRA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	32.3 ON APR 23	---	---	1960
1961	---	25.3 ON APR 24	0.020E ON SEP 16	61 500	1961
1962	---	34.8 ON AUG 30	0.156 ON JAN 1	197 000	1962
1963	---	22.9 ON APR 26	0.105 ON DEC 27	156 000	1963
1964	---	48.4 ON MAY 8	0.048 ON JAN 26	195 000	1964
1965	---	32.8E ON APR 27	0.385E ON MAR 9	152 000	1965
1966	---	21.2 ON MAY 16	0.017 ON SEP 21	135 000	1966
1967	---	31.7E ON APR 28	0 ON SEP 28 *	111 000	1967
1968	27.2 AT 23:00 CST ON AUG 25	25.8 ON AUG 26	0.031B ON JAN 23	156 000	1968
1969	---	24.0 ON APR 17	0.518 ON DEC 28	113 000	1969
1970	21.4 AT 13:51 CST ON JUN 2	21.1 ON JUN 2	0.042 ON SEP 7	120 000	1970
1971	42.2 AT 23:13 CST ON APR 20	40.5 ON APR 21	0 ON SEP 13	95 500	1971
1972	29.4 AT 19:20 CST ON APR 23	28.9 ON APR 23	0 ON APR 1	83 200	1972
1973	59.7 AT 14:27 CST ON JUN 16	58.3 ON JUN 16	0.800 ON MAR 8	148 000	1973
1974	68.8 AT 18:40 CST ON APR 30 *	68.0 ON APR 30 *	0.020 ON AUG 19	172 000	1974
1975	13.8 AT 17:20 CST ON MAY 6	13.6 ON MAY 6	0.181 ON AUG 2	76 500	1975
1976	19.7 AT 16:20 CST ON APR 19	19.5 ON APR 19	0.007 ON OCT 17	59 500	1976
1977	---	40.8A ON SEP 11	0.013B ON JAN 17	112 000	1977
1978	26.0 AT 18:25 CST ON APR 26	25.8 ON APR 27	0.130 ON DEC 28	122 000	1978
1979	41.4 AT 09:13 CST ON JUN 1	41.0 ON JUN 1	0.103B ON FEB 17	149 000	1979
1980	15.6 AT 17:54 CST ON APR 21	15.6 ON APR 22	0.014 ON AUG 7	57 800	1980
1981	12.6 AT 05:27 CST ON AUG 11	12.1 ON AUG 10	0.347 ON MAR 15	83 100	1981
1982	45.1 AT 14:00 CST ON APR 16	32.8B ON APR 16	0.172B ON MAR 7	90 200	1982
1983	13.8 AT 11:13 CST ON JUN 23	13.5 ON JUN 23	0.063 ON SEP 10	61 800	1983
1984	12.5 AT 08:47 CST ON JUN 24	12.4 ON JUN 24	0.111B ON MAR 11	80 400	1984
1985	---	---	---	---	1985
1986	27.9 AT 18:30 CST ON MAY 2	27.8 ON MAY 2	0.003 ON SEP 1	104 000	1986
				115 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. OSRB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	16.1	15.1	14.5	23.7	32.9	43.2	33.4	15.9	8.70	4.67	3.13	2.44	17.9	1976
1977	2.27	2.90	3.32	11.5	10.1	20.4	27.6	39.1	76.6	109	59.0	34.6	33.2	1977
1978	24.1	17.1	13.2	39.2	93.7	99.4	156	118	92.0	82.9	49.8	30.2	65.7	1978
1979	21.2	17.3	16.4	88.2	196	235	78.2	45.2	51.9	36.3	30.0	26.9	70.4	1979
1980	24.9	22.0	19.3	52.7	74.1	46.3	27.5	18.7	43.1	47.2	44.5	30.6	37.6	1980
1981	21.8	16.6	14.8	26.9	27.1	54.3	59.2	48.4	86.6	56.9	55.8	26.1	39.6	1981
1982	17.0	14.7	12.2	54.2	99.8	127	86.7	89.6	44.3	39.4	30.1	19.4	51.5	1982
1983	14.7	13.3	12.9	28.9	61.4	106	122	45.4	23.7	17.1	15.0	9.93	38.7	1983
1984	6.73	6.79	6.82	38.3	80.5	70.4	75.8	43.3	22.7	37.7	58.4	44.8	39.4	1984
1985	33.5	26.2	20.0	57.1	94.9	78.0	---	---	---	---	59.8	56.3	33.9	---	1985
1986	25.8	19.1	18.0	117	187	92.6	46.9	32.1	16.5	24.4	18.7	17.6	49.8	1986
MEAN	18.9	15.6	13.8	48.9	83.4	88.4	71.6	48.1	44.6	45.0	38.2	25.1	44.6	MEAN

LOCATION - LAT 51 42 52 N, LONG 96 36 44 W
DRAINAGE AREA 5 080 km^2
NATURAL FLOW

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. OSRB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	48.1E ON JUN 27	2.28E ON DEC 30	565 000	1976
1977	---	126 A ON OCT 8	2.21 ON JAN 28 *	1 050 000	1977
1978	195 AT 13:51 CST ON JUL 17	193 ON JUL 17	12.7 B ON MAR 21	2 110 000	1978
1979	373 AT 21:00 CST ON JUN 2 *	372 ON JUN 3 *	16.3 B ON MAR 5	2 220 000	1979
1980	101 AT 18:37 CST ON APR 24	100 ON APR 24	15.2 ON AUG 16	1 190 000	1980
1981	120 AT 08:08 CST ON SEP 8	120 ON SEP 8	13.2 B ON MAR 21	1 250 000	1981
1982	185 AT 12:05 CST ON JUN 9	184 ON JUN 9	11.1 B ON MAR 26	1 620 000	1982
1983	243 AT 14:05 CST ON JUN 26	240 ON JUN 26	7.558 ON DEC 31	1 250 000	1983
1984	93.5 AT 01:18 CST ON JUN 27	92.3 ON JUN 27	5.658 ON MAR 13	1 250 000	1984
1985	122 AT 17:00 CST ON APR 26	121 ON APR 26	18.1 B ON MAR 20	---	1985
1986	191 AT 20:01 CST ON MAY 7	191 ON MAY 8	14.6 ON SEP 16	1 570 000	1986
				1 410 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOSSHILL CREEK NEAR VIRDEN - STATION NO 05MG002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.146	0.021	0.006	0	0	0	0	0	---	---	0 022	1959
1960	---	---	0	1.88	0.047	0.007	0	0	0	0	---	---	0 238	1960
1961	---	---	0 017	0.038	0 009	0	0	0	0	0	---	---	0 008	1961
1962	---	---	0	0 136	0 012	0 005	0	0	0	0	---	---	0 019	1962
1963	---	---	0 807	0 193	0 032	C 317	0 127	0 002	0 001	0	---	---	0 180	1963
1964	---	---	0.017	1.76	0 760	0 025	0.003	0	0	0 003	---	---	0 317	1964
1965	---	---	0	1.52	0 079	0 052	0 879	0 022	0 147	0 126	---	---	C 325	1965
1966	---	---	0.387	0.637	0.208	0 027	0 002	0 001	0	0	---	---	0 158	1966
1967	---	---	0	0.998	0.259	0 003	0	0	0	0	---	---	0 155	1967
1968	---	---	0.345	0.022	0.012	0 002	0	0 006	0 008	0 004	---	---	0 050	1968
1969	---	---	0	3.51	0 186	0 009	0 251	0 028	0	0 011	---	---	0 489	1969
1970	---	---	0	1.40	0.891	0 034	0 108	0 051	0 028	0 201	---	---	0 311	1970
1971	---	---	0 035	0 386	0 078	0 489	0 130	0 001	0 039	0 027	---	---	0 148	1971
1972	---	---	0 662	0.889	0.075	0 002	0	0	0 001	0 001	---	---	0 216	1972
1973	---	---	0 032	0.017	0 026	0 002	---	0 013	0 027	0 127	---	---	---	1973
1974	---	---	0	2.29	0.583	0.084	---	0	0	0	---	---	---	1974
1975	---	---	0	2.08	0 545	0 345	---	0 031	0 130	0 144	---	---	---	1975
1976	---	---	0.020	7.09	0.244	0.071	---	0	0	0	---	---	---	1976
MEAN	---	---	0 127	1.39	0.213	0.082	0 093	0 009	0 021	0 038	---	---	0 187	MEAN

LOCATION - LAT 49 50 34 N
LONG 100 58 02 W
DRAINAGE AREA 184 km²
NATURAL FLOW

BOSSHILL CREEK NEAR VIRDEN - STATION NO 05MG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	0 510 ON MAR 24	0B ON MAR 1 *	481	1959
1960	---	8 51 ON APR 3	0 ON MAR 1	5 030	1960
1961	---	0 170 ON APR 3	0 ON MAR 1	189	1961
1962	---	0 453 ON APR 16	0 ON MAR 1	399	1962
1963	---	1.57 ON MAR 23	0B ON MAR 1	3 380	1963
1964	---	3 03 B ON APR 10	0B ON MAR 1	5 720	1964
1965	---	7 93 E ON APR 14	0E ON MAR 1	5 880	1965
1966	---	4 02 B ON MAR 31	0B ON MAR 1	3 350	1966
1967	---	2 97 ON APR 12	0B ON MAR 1	3 290	1967
1968	---	0.8818 ON MAR 13	0B ON MAR 1	1 070	1968
1969	---	18 1 ON APR 14	0B ON MAR 1	10 400	1969
1970	---	3 11 ON APR 30	0B ON MAR 1	5 890	1970
1971	---	3 05 ON JUN 10	0B ON MAR 1	3 150	1971
1972	---	2 77 B ON MAR 23	0B ON MAR 1	4 570	1972
1973	---	0 748 ON MAR 19	0B ON MAR 1	---	1973
1974	---	10.8 ON APR 19	0B ON MAR 1	---	1974
1975	---	6 68 B ON APR 17	0B ON MAR 1	---	1975
1976	---	24 0 ON APR 10 *	0E ON AUG 1	---	1976
				3 980	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE CHANNEL NEAR HOMEWOOD - STATION NO 05OF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0 017	0 021	---	---	1918
1919	---	---	---	1 34	0 081	0 005	0	0 004	0	---	---	---	---	1919
MEAN	---	---	---	1 34	0 081	0 005	0	0 004	0	0 017	0 021	---	---	MEAN

LOCATION - LAT 49 31 05 N
LONG 97 50 40 W
REGULATED

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.293	0.472	---	---	1918
1919	---	---	---	4.28	0.842	0.604	0.142	0.117	0.114	0.086	---	---	---	1919
1920	---	---	---	---	1.70	0.570	0.217	0.088	0	---	---	---	---	1920
1921	---	---	---	5.74	1.14	0.557	4.09	---	---	---	---	---	---	1921
1922	---	---	---	4.36	1.55	0.315	0.257	0.115	---	---	---	---	---	1922
1923	---	---	---	---	3.64	0.858	0.259	0.131	---	---	---	---	---	1923
1924	---	---	---	---	1.52	0.436	0.162	0.158	0.015	---	---	---	---	1924
1925	---	---	---	5.10	1.17	1.18	0.403	0.078	0.080	0.198	---	---	---	1925
1926	---	---	---	---	0.449	0.478	0.171	0.078	0.291	---	---	---	---	1926
1927	---	---	---	10.6	10.8	3.42	1.31	0.804	0.452	0.526	---	---	---	1927
1928	---	---	---	2.55	0.969	3.27	4.29	0.666	0.180	0.265	---	---	---	1928
1929	---	---	---	---	0.790	0.389	0.057	---	---	---	---	---	---	1929
1930	---	---	---	11.6	3.56	0.940	0.221	0.015	0.015	---	---	---	---	1930
1956	---	---	---	15.0	8.84	1.08	0.285	0.346	0.968	0.407	---	---	---	1956
1957	---	---	2.73	2.77	1.37	1.04	0.561	0.351	0.241	0.281	---	---	---	1957
1958	---	---	0.776	2.39	0.393	0.085	0.185	0.019	0	0	---	---	---	1958
1959	---	---	0.368	5.51	1.88	1.00	0.180	0.050	0.039	1.19	1.20	0.349	---	1959
1960	0.245	0.316	0.384	17.5	2.71	1.03	0.266	0.158	0.053	0.085	0.142	0.073	1.88	1960
1961	0.035	0.089	2.95	4.77	1.71	0.222	0.013	0	0	0	0	0	0.817	1961
1962	0	0	0	8.18	3.13	3.51	0.633	5.02	1.71	0.233	0.208	0.173	1.90	1962
1963	0.082	0.018	2.66	3.49	2.02	5.38	1.17	0.456	0.036	0.089	0.082	0.062	1.30	1963
1964	0.055	0.040	0.027	3.91	1.16	0.820	0.336	0.042	2.03	0.716	0.160	0.078	0.775	1964
1965	0.057	0.049	0.085	15.5	3.51	1.85	1.20	0.428	0.896	1.14	0.692	0.282	2.13	1965
1966	0.181	0.024	3.04	15.0	8.96	0.910	3.15	0.209	0.123	0.076	0.249	0.235	2.52	1966
1967	0.243	0.243	0.228	12.8	3.88	0.627	0.356	0.242	0	0.032	0.044	0.051	1.56	1967
1968	0.034	0.081	1.28	1.75	2.01	0.534	0.779	4.74	2.05	0.576	0.433	0.424	1.23	1968
1969	0.314	0.183	0.183	18.2	4.05	1.75	7.94	1.54	0.284	0.310	1.80	0.157	3.04	1969
1970	0.130	0.134	0.158	16.6	23.1	2.11	0.402	0.041	0.038	0.085	0.448	0.354	3.85	1970
1971	0.184	0.126	0.171	12.9	2.52	1.61	1.19	0.376	0.219	0.798	0.703	0.548	1.77	1971
1972	0.236	0.125	3.20	9.20	2.30	0.398	0.113	0.146	0.093	0.298	0.284	0.057	1.36	1972
1973	0.048	0.089	0.404	0.879	0.709	0.228	0.218	0.101	0.018	0.295	0.407	0.314	0.311	1973
1974	0.080	0.137	0.159	26.7	14.2	2.26	0.410	0.081	0.081	0.140	0.203	0.201	3.71	1974
1975	0.170	0.110	0.162	2.50	2.68	1.54	1.08	0.311	0.236	0.245	0.182	0.098	0.776	1975
1976	0.086	0.096	0.126	14.3	0.992	0.218	0.087	0.136	0.148	0.087	0.032	0.024	1.34	1976
1977	0.020	0.021	0.084	0.068	1.23	0.268	0.029	0.024	0.403	0.572	0.206	0.172	0.280	1977
1978	0.154	0.150	0.111	9.03	2.15	1.35	2.94	0.926	0.404	0.218	0.268	0.088	1.48	1978
1979	0.038	0.214	0.267	23.4	18.1	3.05	0.597	0.089	0.089	0.070	0.116	0.180	3.93	1979
1980	0.177	0.144	0.154	3.39	0.586	0.020	0.054	0.027	0.052	0.023	0.012	0.001	0.389	1980
1981	0	0.126	0.370	0.323	0.240	0.671	0.378	0.276	0.747	0.118	0.026	0.011	0.273	1961
1982	0	0	0.057	1.94	0.675	0.320	0.254	0.005	0.020	0.080	0.020	0.119	0.280	1982
1983	0.125	0.135	0.341	10.2	0.816	0.295	0.230	0.031	0.005	0.103	0.082	0.012	1.02	1983
1984	0	0	0.053	0.092	0.580	0.499	0.086	0.053	0.018	0.018	0.035	0.056	0.124	1984
1985	0.053	0.039	5.44	5.58	0.480	0.170	0.036	1.71	0.208	0.629	0.386	0.330	1.26	1985
1986	0.333	0.099	7.11	11.4	7.77	0.509	1.03	0.420	0.057	0.077	0.249	0.253	2.46	1986
MEAN	0.113	0.103	1.10	8.42	3.54	1.13	0.878	0.497	0.319	0.287	0.306	0.188	1.54	MEAN

LOCATION - LAT 49 31 00 N DRAINAGE AREA 1 250 km²
LONG 97 56 40 W REGULATED

BOYNE RIVER NEAR CARMAN - STATION NO 05OF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1918	---	---	---	---	1918
1919	---	13.5 ON APR 9	---	---	1919
1920	---	---	0 ON AUG 23 +	---	1920
1921	---	---	---	---	1921
1922	---	15.3 B ON APR 7	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	29.7 ON MAY 14	---	---	1927
1928	---	12.8 ON JUL 9	---	---	1928
1929	---	---	---	---	1929
1930	---	34.0 ON APR 9	0 ON AUG 11	---	1930
1956	---	55.1 B ON APR 25	0 ON SEP 26	---	1956
1957	---	10.8 B ON MAR 26	---	---	1957
1958	---	5.098 ON APR 1	0 ON JUN 19	---	1958
1959	---	14.9 B ON APR 6	0 B ON MAR 1	---	1959
1960	---	43.0 ON APR 15	0.028 ON SEP 15	59 800	1960
1961	---	19.4 B ON MAR 28	0 ON JUL 31	25 800	1961
1962	---	38.8 B ON APR 23	0 ON JAN 1	59 800	1962
1963	---	14.5 ON JUN 5	0 B ON FEB 20	40 900	1963
1964	---	13.9 B ON APR 14	0 ON AUG 10	24 500	1964
1965	---	59.5 B ON APR 16	0.0488 ON JAN 27	67 300	1965
1966	---	55.2 B ON APR 6	0 B ON FEB 16	79 400	1966
1967	---	37.8 ON APR 23	0 ON AUG 25	49 200	1967
1968	---	35.7 ON AUG 27	0.0238 ON JAN 19	39 000	1968
1969	---	89.7 ON APR 15	0.048 ON SEP 22	85 900	1969
1970	---	105 ON APR 30	0.006 ON NOV 16	115 000	1970
1971	---	54.1 ON APR 13	0.005 ON SEP 29	55 900	1971
1972	---	19.3 B ON APR 16	0.008 ON OCT 8	43 200	1972
1973	---	1.18 ON APR 24	0.001 ON SEP 15	9 800	1973
1974	---	132 ON APR 22 +	0.004 ON AUG 17	117 000	1974
1975	---	11.4 ON JUN 30	0 ON AUG 2	24 500	1975
1976	35.1 AT 07 41 CST ON APR 12	34.8 ON APR 11	0 ON AUG 15	42 400	1976
1977	8.35 AT 19 03 CST ON MAY 21	7.39 ON MAY 21	0 ON JUL 14	8 200	1977
1978	---	33.8 B ON APR 13	0.0078 ON APR 7	46 800	1978
1979	131 B AT 23 43 CST ON APR 22 +	119 ON APR 22	0.0138 ON FEB 3	124 000	1979
1980	---	10.7 B ON APR 8	0 ON JUN 9	12 300	1980
1981	6.41 AT 08 07 CST ON JUN 26	5.47 ON JUN 26	0 B ON JAN 1	8 610	1981
1982	8.218 AT 00 27 CST ON APR 15	6.538 ON APR 15	0 B ON JAN 1	9 150	1982
1983	---	24.4 B ON APR 9	0 ON AUG 5	32 100	1983
1984	1.55 AT 21 26 CST ON JUN 10	1.40 ON JUN 11	0 B ON JAN 1	3 930	1984
1985	21.3 B AT 00 59 CST ON MAR 28	20.6 B ON MAR 27	0.001 ON JUL 22	39 800	1985
1986	43.8 B AT 20 06 CST ON MAR 30	39.4 B ON MAR 31	0 ON SEP 10	77 400	1986
				48 600	MEAN

B - ICE CONDITIONS + - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR RATHWELL - STATION NO 05OF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	---	---	---	---	---	---	---	1963
1964	---	---	0	2.18	0.801	1.21	0.599	0.170	0	0	---	---	---	1964
					0.487	0.919	0.477	0.048	1.86	0.850	---	---	0.819	
1965	---	---	0	5.31	0.819	0.371	0.277	0.221	0.214	0.249	---	---	1.02	1965
1966	---	---	1.00	3.84	2.12	0.287	1.40	0.007	0	0	---	---	1.05	1966
MEAN	---	---	0.333	4.04	1.01	0.692	0.688	0.112	0.469	0.275	---	---	0.963	MEAN

LOCATION - LAT 49 38 10 N LONG 98 30 18 W DRAINAGE AREA 453 km^2 NATURAL FLOW

BOYNE RIVER NEAR RATHWELL - STATION NO 05OF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	5.97 ON SEP 2	0 ON AUG 29 +	---	1964
			0B ON MAR 1	17 300	
1965	---	33.4 ON APR 14 +	0B ON MAR 1	21 500	1965
1966	---	8.55 ON APR 6	0B ON MAR 1	22 300	1966
				20 400	MEAN

B - ICE CONDITIONS + - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.025	6.50	1.57	0.074	0.016	0.001	0	0.022	---	---	1.01	1967
1968	---	---	0.613	0.613	0.999	0.162	0.221	0.959	0.389	0.139	---	---	0.513	1968
1969	---	---	0	9.96	1.50	0.727	2.93	1.04	0.202	0.229	---	---	2.05	1969
1970	---	---	0	13.2	8.31	0.835	0.122	0.005	0.018	0.040	---	---	2.77	1970
1971	---	---	0	6.70	1.07	0.504	0.516	0.199	0.101	0.337	---	---	1.16	1971
1972	---	---	2.36	3.82	0.990	0.143	0.036	0.062	0.082	0.080	---	---	0.949	1972
1973	---	---	0.549	0.327	0.290	0.068	0.034	0.058	0.045	0.083	---	---	0.182	1973
1974	---	---	0.042	15.5	5.31	0.895	0.081	0.012	0.023	0.045	---	---	2.70	1974
1975	---	---	0.040	1.50	1.16	0.674	0.194	0.027	0.035	0.132	---	---	0.469	1975
1976	---	---	0.147	9.15	0.417	0.065	0.001	0.010	0	0	---	---	1.20	1976
1977	---	---	0.085	0.230	0.535	0.030	0.031	0.025	0.287	0.255	---	---	0.182	1977
1978	---	---	0.085	7.19	2.00	0.794	2.03	0.704	0.172	0.135	---	---	1.63	1978
1979	---	---	0.073	16.8	9.85	1.37	0.134	0.012	0.080	0.300	---	---	3.55	1979
1980	---	---	0.003	2.45	0.189	0.072	0.012	0.004	0.011	0.027	---	---	0.338	1980
1981	---	0.116	0.157	0.190	0.101	0.156	0.344	0.061	0.012	0.030	---	---	0.132	1981
1982	---	---	0.106	0.749	0.280	0.236	0.019	0.008	0	0.055	---	---	0.181	1982
1983	---	---	0.346	7.53	0.258	0.068	0.013	0	0	0	---	---	1.01	1983
1984	---	---	0.181	0.218	0.300	0.137	0	0	0	0.060	---	---	0.109	1984
1985	---	---	3.27	3.45	0.245	0.048	0.016	0.384	0.012	0.155	---	---	0.944	1985
1986	---	---	5.00	5.81	4.31	0.489	1.32	0.388	0.031	0.117	---	---	2.16	1986
MEAN	---	0.116	0.853	5.59	1.96	0.388	0.403	0.196	0.073	0.111	---	---	1.16	MEAN

LOCATION - LAT 49 32 39 N DRAINAGE AREA, 582 km²
LONG 98 24 52 W NATURAL FLOW

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	23.3 ON APR 21	0 B ON MAR 1 *	21 400	1967
1968	---	14.2 E ON AUG 24	0 B ON MAR 1	10 800	1968
1969	---	42.8 ON APR 12	0 B ON MAR 1	43 500	1969
1970	---	51.8 R ON APR 29	0 B ON MAR 1	58 500	1970
1971	---	22.3 B ON APR 8	0 B ON MAR 1	24 600	1971
1972	---	9.178 ON MAR 21	0 B ON MAR 1	20 000	1972
1973	---	1.008 ON MAR 14	0 B ON MAR 1	3 880	1973
1974	---	68.2 ON APR 21	0.005 ON AUG 4	57 200	1974
1975	---	3.91 ON APR 29	0.003 ON AUG 7	9 840	1975
1976	---	27.2 ON APR 8	0 ON JUL 7	25 400	1976
1977	---	1.91 ON MAY 16	0 B ON MAR 1	3 880	1977
1978	---	28.2 ON APR 10	0.040B ON MAR 1	34 400	1978
1979	---	83.6 A ON APR 21 *	0 ON AUG 12	75 200	1979
1980	8.478 AT 10 16 CST ON APR 10	7.288 ON APR 10	0 B ON MAR 1	7 150	1980
1981	11.3 AT 02 48 CST ON JUL 16	5.53 ON JUL 16	0 ON AUG 15	2 780	1981
1982	---	1.64 ON APR 21	0 B ON MAR 1	3 830	1982
1983	18.3 AT 22 55 CST ON APR 8	15.9 ON APR 11	0 ON JUL 9	21 300	1983
1984	1.85 AT 18 02 CST ON JUN 2	1.23 ON JUN 2	0 B ON MAR 1	2 320	1984
1985	11.3 AT 00 40 CST ON APR 3	10.5 B ON MAR 31	0 B ON MAR 1	20 000	1985
1986	24.3 B AT 12 00 CST ON MAR 30 *	24.0 B ON MAR 30	0 ON SEP 12	45 500	1986
				24 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1 1986

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05DF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1952	---	---	---	---	---	---	---	---	0.006	0.014	0.025	0.023	---	1952
1953	0.005	0.003	0.113	1.17	0.742	7.82	1.45	2.84	0.075	0.059	0.085	0.057	1.20	1953
1954	0.039	0.081	0.121	1.19	1.83	5.03	5.22	0.379	0.834	1.16	1.18	0.572	1.54	1954
1955	0.159	0.143	0.184	14.1	2.12	3.73	3.86	0.153	0.018	0.066	0.079	0.110	2.03	1955
1956	0.081	0.055	0.104	13.3	7.50	0.889	0.141	0.576	1.08	0.534	0.771	0.197	2.10	1956
1957	0.093	0.125	2.86	2.79	1.33	1.10	0.520	0.282	0.232	0.142	0.165	0.057	0.796	1957
1958	0.015	0.033	1.25	2.14	0.512	0.086	0.114	0.024	0.007	0.040	0.077	0.058	0.382	1958
1959	0.055	0.039	0.571	5.78	1.81	0.788	0.128	0.048	0.079	1.13	0.991	0.296	0.973	1959
1960	0.181	0.087	0.145	15.3	2.48	1.10	0.271	0.272	0.053	0.123	0.168	0.052	1.67	1960
1961	0.050	0.030	3.76	4.85	1.51	0.151	0.032	0.011	0.012	0.010	0.002	0	0.854	1961
1962	0	0	0	9.01	2.80	2.80	0.510	5.12	1.52	0.334	0.223	0.131	1.96	1962
1963	0.033	0.011	2.84	3.13	1.70	6.42	1.19	0.359	0.127	0.431	0.140	0.081	1.20	1963
1964	0.034	0.021	0.009	3.13	1.03	0.946	0.322	0.081	2.17	0.197	0.218	0.140	0.885	1964
1965	0.099	0.074	0.104	15.7	3.04	1.25	1.23	0.482	0.703	0.928	0.580	0.244	2.02	1965
1966	0.041	0.008	1.32	12.2	7.38	0.835	2.57	0.184	0.064	0.115	0.241	0.158	2.09	1966
1967	0.136	0.024	0.068	10.8	3.16	0.702	0.333	0.082	0.020	0.031	0.082	0.053	1.28	1967
1968	0.008	0.014	1.60	1.28	1.84	0.354	0.717	4.16	1.80	0.578	0.499	0.482	1.10	1968
1969	0.758	0.215	0.224	18.2	3.12	2.06	6.84	1.35	0.275	0.448	1.39	0.135	2.85	1969
1970	0.129	0.135	0.132	19.3	17.8	1.52	0.287	0.012	0.034	0.111	0.311	0.182	3.33	1970
1971	0.089	0.124	0.167	12.6	2.12	1.37	1.17	0.308	0.224	0.928	0.796	0.471	1.68	1971
1972	0.180	0.021	3.02	8.28	1.94	0.316	0.048	0.090	0.043	0.334	0.234	0.146	1.22	1972
1973	0.106	0.139	0.548	0.623	0.581	0.184	0.156	0.075	0.068	0.257	0.483	0.373	0.289	1973
1974	0.157	0.171	0.189	23.4	10.7	1.77	0.274	0.013	0.045	0.049	0.258	0.217	3.09	1974
1975	0.162	0.138	0.177	2.85	2.13	1.70	0.628	0.310	0.235	0.256	0.186	0.098	0.737	1975
1976	0.079	0.078	0.084	14.2	0.827	0.153	0.018	0.080	0.187	0.057	0.087	0.048	1.30	1976
1977	0.059	0.128	0.080	0.017	1.26	0.128	0.018	0.071	0.551	0.482	0.285	0.281	0.278	1977
1978	0.228	0.170	0.117	9.06	2.09	1.24	2.97	0.848	0.390	0.208	0.393	0.093	1.48	1978
1979	0.060	0.089	0.150	24.1	15.6	2.45	0.282	0.062	0.056	0.046	0.094	0.178	3.59	1979
1980	0.183	0.170	0.150	3.83	0.501	0.089	0.078	0.116	0.056	0.017	0.012	0.028	0.415	1980
1981	0.078	0.072	0.357	0.309	0.286	0.831	0.429	0.253	0.719	0.198	0.084	0.050	0.287	1981
1982	0.029	0.023	0.023	2.16	0.832	0.371	0.075	0.013	0.132	0.045	0.188	0.178	0.320	1982
1983	0.187	0.123	0.236	10.5	0.889	0.256	0.285	0.147	0.078	0.155	0.043	0.018	1.04	1983
1984	0.004	0.020	0.079	0.389	0.630	0.447	0.194	0.131	0.086	0.028	0.080	0.081	0.178	1984
1985	0.075	0.085	4.93	4.75	0.487	0.150	0.141	2.68	0.314	0.480	0.403	0.282	1.24	1985
1986	0.278	0.071	8.93	8.63	6.88	0.577	1.40	0.484	0.153	0.150	0.297	0.211	2.18	1986
MEAN	0.088	0.078	0.955	8.20	3.20	1.43	0.985	0.879	0.355	0.289	0.315	0.182	1.38	MEAN

LOCATION - LAT 49 30 48 N LONG 98 14 58 W

DRAINAGE AREA 983 km²

REGULATED SINCE 1984

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05DF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1952	---	---	---	---	1952
1953	---	---	---	---	1953
1954	---	26.9 ON JUN 4	0.003B ON FEB 1	37 800	1953
		31.7 E ON JUL 1	0.028B ON JAN 1	48 500	1954
1955	---	41.3 B ON APR 5	0 ON SEP 2 *	64 200	1955
1956	---	44.7 B ON APR 21	0 B ON FEB 20	66 400	1956
1957	---	11.1 B ON MAR 23	0.028 ON SEP 21	25 100	1957
1958	---	6.20B ON MAR 31	0 B ON JAN 18	11 400	1958
1959	---	17.9 B ON APR 4	0.003B ON MAR 15	30 700	1959
1960	---	41.1 ON APR 14	0.003 ON OCT 1	52 800	1960
1961	---	26.5 B ON MAR 27	0 ON OCT 20	27 000	1961
1962	---	45.0 B ON APR 21	0 B ON JAN 1	81 900	1962
1963	---	15.0 ON JUN 5	0 B ON FEB 19	38 000	1963
1964	---	12.5 ON SEP 2	0 B ON APR 9	21 700	1964
1965	---	63.4 ON APR 15	0.034 ON JUN 14	83 700	1965
1966	---	42.5 B ON APR 4	0 B ON FEB 18	86 000	1966
1967	---	43.3 ON APR 21	0 ON AUG 31	40 400	1967
1968	---	32.8 ON AUG 25	0 B ON JAN 18	34 800	1968
1969	---	70.8 ON APR 12	0.122 ON SEP 20	90 000	1969
1970	111 AT 13:27 CST ON APR 29	108 ON APR 29	0.008 ON AUG 12	105 000	1970
1971	80.3 AT 12:00 CST ON APR 11	57.2 ON APR 11	0.019 ON AUG 31	53 200	1971
1972	20.7 AT 13:44 CST ON APR 15	18.7 ON APR 15	0.003 ON SEP 10	38 500	1972
1973	---	1 708 ON MAR 27	0.004A ON JUL 24	9 430	1973
1974	136 AT 17:00 CST ON APR 21	114 ON APR 21	0.001A ON AUG 6	97 800	1974
1975	15.9 AT 06:10 CST ON JUN 29	14.3 ON JUN 29	0.001A ON JUL 30	23 200	1975
1976	43.9 AT 16:37 CST ON APR 9	42.8 ON APR 9	0 ON AUG 8	41 300	1976
1977	---	7.78A ON MAY 20	0 ON APR 25	8 750	1977
1978	---	26.1 B ON APR 11	0.048B ON DEC 27	45 700	1978
1979	155 AT 08:48 CST ON APR 22 *	137 ON APR 22 *	0.029 ON SEP 14	113 000	1979
1980	12.4 AT 15:10 CST ON APR 7	11.5 B ON APR 7	0.011 ON OCT 26	13 100	1980
1981	7.16 AT 22:11 CST ON JUN 24	5.01 ON JUN 25	0.001A ON OCT 22	9 050	1981
1982	---	6.28A ON APR 13	0.001A ON JUL 22	10 100	1982
1983	32.0 B AT 13:45 CST ON APR 9	30.0 B ON APR 8	0.001 ON NOV 22	32 900	1983
1984	2.18 AT 14:35 CST ON APR 14	1.74 ON JUN 9	0.001B ON JAN 17	5 820	1984
1985	19.5 AT 08:22 CST ON AUG 18	18.2 B ON MAR 28	0.020 ON JUL 7	38 000	1985
1986	40.7 AT 21:10 CST ON MAR 29	38.8 ON MAR 30	0.007 ON MAR 20	89 000	1986
				44 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)

B - ICE CONDITIONS

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.035	2.15	0.605	0.004	0.042	0	0	0	---	---	0.882	1967
1968	---	---	0.328	0.418	0.327	0.077	0.073	0.201	0.135	0.093	---	---	0.288	1968
1969	---	---	0.005	5.65	0.803	0.786	1.49	0.519	0.084	0.100	---	---	1.73	1969
1970	---	---	0	6.73	3.22	0.316	0.061	0.011	0.018	0.026	---	---	2.55	1970
1971	---	---	0	4.72	0.611	0.278	0.589	0.105	0.042	0.155	---	---	1.39	1971
1972	---	---	0.872	1.99	0.450	0.048	0.008	0.131	0.021	0.029	---	---	0.883	1972
1973	---	---	0.297	0.163	0.146	0.039	0.088	0.019	0.023	0.038	---	---	0.182	1973
1974	---	---	0	6.80	2.22	0.367	0.014	0	0.013	0.041	---	---	2.82	1974
1975	---	---	0.001	0.789	0.699	0.173	0.023	0.003	0.020	0.038	---	---	0.414	1975
1976	---	---	0.074	5.17	0.178	0.053	0.005	0	0	0	---	---	1.35	1976
1977	---	---	0.019	0.145	0.223	0.018	0.491	0.123	0.406	0.147	---	---	0.102	1977
1978	---	---	0.095	2.45	0.537	0.358	---	---	---	---	---	---	0.851	1978
1979	---	---	0.017	5.86	3.25	0.518	---	---	---	---	---	---	2.84	1979
1980	---	---	0.023	0.903	0.088	0.009	---	---	---	---	---	---	0.248	1980
1981	---	---	0.029	0.100	0.098	0.071	---	---	---	---	---	---	0.075	1981
1982	---	---	0.088	0.849	0.151	0.045	---	---	---	---	---	---	0.234	1982
1983	---	---	0.520	3.88	0.197	0.043	---	---	---	---	---	---	1.15	1983
1984	---	---	0.179	0.129	0.170	0.031	---	---	---	---	---	---	0.128	1984
1985	---	---	1.59	1.45	0.105	0.023	---	---	---	---	---	---	0.792	1985
1986	---	---	2.17	1.87	1.41	0.227	---	---	---	---	---	---	1.42	1986
MEAN	---	---	0.323	2.75	0.783	0.173	0.282	0.101	0.089	0.061	---	---	0.995	MEAN

LOCATION - LAT 49 40 15 N DRAINAGE AREA, 274 km²
LONG 98 38 35 W NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1973 AND 1977

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	0.95 ON APR 21	0 B ON MAR 1 *	7 250	1967
1968	---	2.18 ON MAY 15	0 B ON MAR 1	3 030	1968
1969	---	29.7 ON APR 10	0 B ON MAR 1	18 300	1969
1970	---	34.0 R ON APR 26	0 B ON MAR 1	26 900	1970
1971	---	12.8 ON APR 8	0 B ON MAR 1	14 500	1971
1972	---	4.25 B ON APR 10	0 B ON MAR 1	9 100	1972
1973	---	0.4258 ON MAR 12	0 B ON MAR 1	1 710	1973
1974	---	49.5 ON APR 21 *	0 B ON MAR 1	28 700	1974
1975	---	4.25 E ON MAY 25	0 B ON MAR 1	4 370	1975
1976	---	19.4 B ON APR 6	0.018 ON JUN 30	14 200	1976
1977	---	0.994 ON MAY 14	0 B ON MAR 1	1 070	1977
1978	---	7.82 ON APR 10	0.0168 ON MAR 1	8 970	1978
1979	---	37.2 B ON APR 21	0.0168 ON MAR 1	27 900	1979
1980	3.00 B AT 20 28 CST ON APR 6	2.70 B ON APR 6	0 ON JUN 8	2 610	1980
1981	0.211 AT 22 38 CST ON MAY 29	0.176 ON MAY 2	0.0068 ON MAR 5	786	1981
1982	2.32 B AT 08 38 CST ON APR 13	1.90 B ON APR 13	0 B ON MAR 1	2 470	1982
1983	14.9 AT 03 25 CST ON APR 9 *	12.3 ON APR 8	0 B ON MAR 1	12 000	1983
1984	---	1.59 B ON MAR 25	0 B ON MAR 1	1 350	1984
1985	6.22 B AT 01 18 CST ON MAR 26	5.92 B ON MAR 26	0 B ON MAR 1	8 350	1985
1986	12.2 AT 12 23 CST ON MAR 29	11.2 ON MAR 29	0.010 ON JUN 15	15 000	1986
				10 500	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

BROKENHEAD RIVER AT ST OUENS - STATION NO. 05SA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	9.59	3.60	2.30	11.7	13.5	8.39	---	---	1912
1913	---	---	---	---	---	3.04	5.37	5.69	4.88	3.46	2.44	---	---	1913
1914	0	0	0.156	5.13	6.70	13.4	15.0	2.43	2.39	5.42	3.89	0.786	4.72	1914
1915	0.170	0.113	0.085	10.6	14.8	6.44	3.60	0.403	0.126	1.84	1.14	0.425	3.32	1915
1916	0.142	0.142	0.142	20.3	16.9	5.79	6.87	5.14	1.88	2.10	2.54	0.283	5.18	1916
1917	0.057	0.057	0.170	5.95	5.08	1.07	0.604	0.803	0.693	0.880	1.30	0.113	1.37	1917
1918	0.028	0	1.18	2.53	1.33	3.88	1.75	2.07	0.791	1.28	4.02	0.681	1.63	1918
1919	0.212	0.061	0.231	11.2	4.71	2.89	22.1	3.40	3.37	2.16	0.784	0.116	4.31	1919
1920	0.006	0.067	0.369	13.1	7.40	12.5	1.41	0.064	0.112	0.185	0.150	0.072	2.93	1920
1921	0.052	0.050	0.092	8.02	6.26	2.24	4.21	1.04	1.95	2.18	1.06	0.225	2.29	1921
1922	0.090	0.038	0.174	4.80	18.4	5.28	3.22	4.43	2.79	0.989	4.31	---	---	1922
1923	---	---	---	---	16.8	5.34	11.2	8.23	3.84	3.53	1.70	---	---	1923
1924	---	---	---	---	22.2	6.13	1.78	1.67	0.806	3.59	---	---	---	1924
1925	---	---	---	17.3	6.58	24.8	8.70	2.00	1.98	5.88	3.40	---	---	1925
1926	---	---	---	---	1.35	4.52	5.54	1.47	1.79	10.4	7.08	---	---	1926
1927	---	---	---	28.3	47.3	14.7	2.70	0.578	2.58	5.53	4.26	---	---	1927
1928	---	---	---	1.42	4.11	25.8	21.1	7.83	2.56	0.751	---	---	---	1928
1929	---	---	---	---	2.88	5.93	3.98	0.285	0.132	0.235	---	---	---	1929
1930	---	---	---	8.07	20.5	7.35	7.97	0.770	0.263	1.61	0.942	---	---	1930
1931	---	---	---	12.7	6.39	1.37	---	---	---	---	---	---	---	1931
MEAN	0.084	0.059	0.289	10.7	11.2	8.10	6.93	2.84	2.33	3.49	2.96	0.338	3.22	MEAN

LOCATION - LAT 50 03 03 N DRAINAGE AREA, 1 540 km²
LONG 96 26 45 W NATURAL FLOW

BROKENHEAD RIVER AT ST OUENS - STATION NO 05SA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	---	---	---	1914
		36.8 ON JUL 18	0 B ON JAN 1 *	149 000	
1915	---				1915
1916	---	23.8 ON MAY 11	0.057 ON AUG 31	105 000	1916
1917	---	47.0 ON APR 19	0.1428 ON JAN 1	164 000	1917
1918	---	13.3 ON APR 21	0.0288 ON DEC 8	43 000	1918
1919	---	8.86 ON NOV 24	0 B ON FEB 1	51 400	1919
		44.7 ON JUL 9	0.0288 ON FEB 23	136 000	
1920	---				1920
1921	---	27.0 B ON APR 18	0 B ON JAN 5	82 500	1921
1922	---	11.4 B ON APR 13	0.0288 ON JAN 1	72 300	1922
1923	---	30.3 ON MAY 20	0.0288 ON FEB 3	---	1923
1924	---	95.7 ON APR 24 *	---	---	1924
		89.7 ON APR 27	---	---	
1925	---				1925
1926	---	36.0 ON JUN 27	---	---	1926
1927	---	---	---	---	1927
1928	---	53.7 ON MAY 14	---	---	1928
1929	---	55.5 ON JUN 23	---	---	1929
		---	---	---	
1930	---				1930
1931	---	43.8 ON MAY 15	---	---	1931
		26.4 ON APR 11	---	---	
				102 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO 05SA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	3.45	0.311	0.172	0.834	0.419	---	---	---	1942
1943	---	---	---	9.77	6.89	17.1	7.90	0.808	0.520	0.248	---	---	---	1943
1944	---	---	---	2.43	1.80	14.2	4.58	4.37	18.0	3.89	9.50	---	---	1944
1945	---	---	---	27.3	14.8	3.68	2.29	0.222	3.24	4.08	---	---	---	1945
1946	---	---	---	10.3	4.21	0.789	0.595	0.045	0.179	1.15	---	---	---	1946
1947	---	---	---	---	12.7	4.98	1.35	4.29	1.07	3.43	---	---	---	1947
1948	---	---	---	15.3	15.6	0.989	1.37	2.80	0.351	0.089	---	---	---	1948
1949	---	---	---	8.57	5.87	1.81	0.318	0.810	0.309	4.95	---	---	---	1949
1950	---	---	---	15.2	51.4	9.97	4.17	0.721	3.01	5.89	---	---	---	1950
1951	---	---	---	9.53	8.49	4.98	0.774	0.313	0.997	0.883	---	---	---	1951
1952	---	---	---	1.51	0.142	0.248	0.530	0.048	0.008	0.057	---	---	---	1952
1953	---	---	---	3.17	1.25	5.76	5.88	0.848	0.848	0.493	---	---	---	1953
1954	---	---	---	5.47	11.9	14.2	4.68	0.510	5.01	8.85	5.93	---	---	1954
1955	---	---	---	30.1	10.8	7.58	1.99	0.155	0.023	0.312	---	---	---	1955
1956	---	---	0	8.82	12.5	5.00	2.38	0.795	4.81	2.12	---	---	---	1956
1957	---	---	3.78	15.8	11.4	10.3	5.53	0.894	0.395	0.282	0.285	0.091	---	1957
1958	0.041	0.028	0.278	0.817	0.250	0.052	6.08	1.42	0.209	0.354	0.425	0.281	0.872	1958
1959	0.125	0.015	0.009	14.9	18.6	27.8	8.19	5.92	13.2	28.1	13.0	1.10	10.8	1959
1960	0.053	0.031	1.72	37.4	13.7	4.58	1.80	0.544	0.248	0.177	0.873	0.215	5.10	1960
1961	0.003	0.024	1.20	3.86	3.77	0.424	0.089	0.211	0.062	0.144	0.047	0.036	0.835	1961
1962	0.025	0.015	0.040	2.55	14.5	15.5	9.88	13.5	3.28	1.18	1.42	0.750	5.23	1962
1963	0.087	0.023	2.80	15.5	10.0	19.3	8.59	1.74	0.384	0.142	0.210	0.099	4.88	1963
1964	0.007	0	0	9.89	14.4	5.45	2.02	0.401	0.861	2.23	0.831	0.174	3.01	1964
1965	0.104	0.086	0.033	13.1	10.7	9.12	7.79	1.21	2.34	2.87	2.38	1.80	4.28	1965
1966	0.185	0.157	0.800	37.6	33.8	14.3	19.4	0.854	3.52	2.37	2.25	0.196	9.63	1966
1967	0.443	0.319	1.50	32.7	17.4	2.64	1.03	0.601	0.053	0.042	0.122	---	---	1967
1968	---	---	---	3.59	5.74	9.08	5.19	5.05	8.40	3.44	2.01	---	---	1968
1969	---	---	0.178	17.7	8.72	8.78	4.19	1.08	0.486	1.52	0.724	0.512	---	1969
1970	0.227	0.084	0.032	12.7	24.1	23.2	3.24	0.379	0.504	0.739	3.87	0.104	5.76	1970
1971	0.028	0.020	0.014	17.1	7.80	2.87	1.04	0.486	0.101	1.19	1.74	0.286	2.70	1971
1972	0.104	0.085	0.307	11.9	8.33	1.95	0.191	0.151	0.446	1.08	0.788	0.092	1.84	1972
1973	0.071	0.073	3.31	2.46	2.14	11.7	4.61	2.14	8.78	14.0	3.89	1.89	4.59	1973
1974	0.383	0.226	0.207	54.1	53.7	14.1	0.422	0.071	0.102	0.208	0.185	0.088	10.3	1974
1975	0.031	0.080	0.133	5.27	6.80	9.87	4.41	0.770	0.780	0.753	0.702	0.154	2.47	1975
1976	0.118	0.097	0.081	15.0	4.83	4.19	1.75	0.098	0.022	0.035	0.030	0.017	2.18	1976
1977	0.034	0.018	0.039	0.886	0.171	1.32	1.40	0.618	10.8	5.48	1.88	0.430	1.89	1977
1978	0.188	0.159	0.358	28.7	15.5	4.91	2.85	0.380	0.081	0.114	0.118	0.090	4.48	1978
1979	0.057	0.054	0.094	17.0	23.4	12.3	0.890	0.080	0.535	0.181	0.274	0.152	4.58	1979
1980	0.093	0.071	0.100	7.86	1.41	0.145	0.049	0.080	0.070	0.234	0.355	0.089	0.854	1980
1981	0.024	0.133	0.952	0.940	0.252	0.630	0.743	0.072	1.01	2.90	1.73	0.313	0.811	1981
1982	0.068	0.042	0.383	8.24	3.98	5.80	3.17	1.51	0.230	2.23	1.03	0.696	2.28	1982
1983	0.123	0.012	0.889	11.7	4.53	3.17	1.97	0.072	0.021	0.031	0.333	0.083	1.90	1983
1984	0.008	0.015	0.454	1.08	0.338	11.3	2.88	0.354	0.021	0.462	0.528	0.131	1.46	1984
1985	0.026	0.048	1.80	3.27	2.84	1.08	0.976	0.593	0.817	0.945	0.840	0.078	1.07	1985
1986	0.085	0.112	2.53	14.8	23.7	1.86	0.740	0.805	0.190	0.478	0.496	0.388	3.89	1986
MEAN	0.102	0.073	0.781	13.2	11.4	7.38	3.31	1.30	2.15	2.52	1.82	0.355	3.76	MEAN

LOCATION - LAT 50 05 25 N DRAINAGE AREA 1 580 km^2
LONG 96 25 45 W NATURAL FLOW

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO 05SA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	31.1 B ON APR 9	---	---	1943
1944	---	35.7 ON SEP 4	0 B ON APR 1 *	---	1944
1945	---	53.2 ON MAR 27	---	---	1945
1946	---	27.7 B ON MAR 24	---	---	1946
1947	---	26.1 B ON APR 14	---	---	1947
1948	---	39.4 ON APR 29	---	---	1948
1949	---	22.1 ON APR 12	---	---	1949
1950	---	85.4 ON MAY 11	---	---	1950
1951	---	13.8 B ON APR 7	---	---	1951
1952	---	3.558 ON APR 11	0 ON MAR 24	---	1952
1953	---	13.4 ON JUL 6	---	---	1953
1954	---	34.0 ON SEP 29	---	---	1954
1955	---	74.5 ON APR 8	0 ON SEP 4	---	1955
1956	---	20.4 B ON APR 23	0 B ON MAR 1	---	1956
1957	---	30.9 ON APR 25	---	---	1957
1958	---	11.5 ON JUL 25	0.0288 ON JAN 15	27 500	1958
1959	---	60.6 ON JUN 11	0 B ON FEB 16	340 000	1959
1960	---	52.7 ON APR 16	0 B ON FEB 12	181 000	1960
1961	---	7.08 ON MAY 2	0 B ON JAN 5	26 300	1961
1962	---	45.3 ON MAY 27	0.0148 ON FEB 11	165 000	1962
1963	---	38.8 B ON APR 8	0.0208 ON FEB 16	154 000	1963
1964	---	36.2 B ON APR 19	0 B ON JAN 11	95 300	1964
1965	---	30.3 B ON APR 14	0.0178 ON MAR 26	135 000	1965
1966	---	51.5 ON APR 15	0.0178 ON JAN 28	304 000	1966
1967	---	47.0 ON APR 22	---	---	1967
1968	---	17.4 ON JUN 15	---	---	1968
1969	38.2 AT 05 58 CST ON APR 12	36.5 ON APR 13	---	---	1969
1970	46.4 AT 22 16 CST ON MAY 30	46.2 ON MAY 30	0 B ON FEB 15	182 000	1970
1971	44.7 AT 08 51 CST ON APR 9	37.7 ON APR 11	0.0118 ON MAR 21	85 200	1971
1972	24.3 B AT 22 09 CST ON APR 16	22.5 B ON APR 16	0.057 ON SEP 2	61 400	1972
1973	41.8 AT 20 22 CST ON JUN 20	37.7 ON JUN 21	0.0688 ON JAN 5	145 000	1973
1974	---	163 A ON APR 23 *	0.0458 ON DEC 31	326 000	1974
1975	51.0 AT 07 47 CST ON JUN 23	45.9 ON JUN 23	0.0218 ON JAN 21	78 000	1975
1976	---	21.8 ON APR 19	0.0148 ON DEC 11	68 300	1976
1977	---	19.0 ON SEP 10	0 B ON MAR 10	52 700	1977
1978	---	54.9 B ON APR 16	0.034 ON SEP 11	141 000	1978
1979	73.0 B AT 16 20 CST ON APR 19 *	65.3 B ON APR 19	0.029 ON AUG 5	144 000	1979
1980	22.0 AT 01 30 CST ON APR 8	18.9 B ON APR 8	0.010 ON JUL 30	27 000	1980
1981	3.91 AT 21 59 CST ON OCT 29	3.708 ON APR 3	0.0018 ON JAN 4	25 600	1981
1982	23.6 B AT 08 11 CST ON APR 17	19.7 B ON APR 17	0 B ON MAR 14	72 000	1982
1983	27.7 AT 23 29 CST ON APR 11	20.5 B ON APR 11	0.0018 ON JAN 14	59 800	1983
1984	22.7 AT 03 20 CST ON JUN 20	22.4 ON JUN 20	0 B ON JAN 18	46 200	1984
1985	9.698 AT 06 29 CST ON MAR 25	8.128 ON MAR 25	0.0048 ON JAN 10	33 600	1985
1986	42.0 AT 01 44 CST ON MAY 2	40.8 ON MAY 2	0.0028 ON MAR 16	123 000	1986
				119 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BROKENHEAD RIVER NEAR VIVIAN - STATION NO 05SA004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	17.3	6.29	2.31	0.913	0.062	0.026	0.024	---	---	---	1960
1961	---	---	0.803	1.31	1.26	0.072	0.003	0.002	0.139	0.218	---	---	0.438	1961
1962	---	---	0.006	1.04	3.80	4.39	3.11	0.611	1.30	0.528	---	---	2.53	1962
1963	---	---	0.943	4.76	3.33	6.32	3.83	0.570	0.069	0.301	---	---	2.50	1963
1964	---	---	0	3.97	5.99	2.31	1.10	0.129	0.384	1.03	---	---	1.86	1964
1965	---	---	0	5.86	4.28	3.97	3.43	0.334	0.816	0.999	---	---	2.46	1965
1966	---	---	0.269	15.6	13.0	7.15	9.90	0.265	1.82	0.893	---	---	6.09	1966
1967	---	---	0.238	16.5	7.46	0.657	0.027	0.016	0	0	---	---	3.08	1967
1968	---	---	0.331	1.32	1.29	2.90	0.769	1.08	2.45	1.38	---	---	1.43	1968
1969	---	---	0	7.63	5.08	4.17	1.30	0.137	0.102	0.245	---	---	2.31	1969
1970	---	---	0	4.88	8.48	7.68	0.841	0.108	0.205	0.102	---	---	2.74	1970
1971	---	---	0.023	5.49	2.31	0.296	0.147	0.010	0.151	0.455	---	---	1.10	1971
1972	---	---	0.006	5.00	2.28	0.513	0.011	0.009	0.042	0.198	---	---	0.999	1972
1973	---	---	1.23	0.361	0.402	1.79	0.815	0.291	3.02	5.20	---	---	1.64	1973
1974	---	---	0	21.9	21.7	5.61	0.068	0.001	0	0	---	---	6.25	1974
1975	---	---	0	1.65	2.41	2.74	2.00	0.394	0.163	0.107	---	---	1.18	1975
1976	---	---	0.005	5.38	1.91	2.36	1.35	0.070	0	0	---	---	1.37	1976
1977	---	---	0	0.065	0.087	0.224	0.216	0.051	2.87	2.61	---	---	0.758	1977
1978	---	---	0.004	11.3	5.87	2.08	0.132	0	0	0	---	---	2.40	1978
1979	---	---	0	5.02	9.16	5.02	0.155	0.055	0.147	0.068	---	---	2.44	1979
1980	---	---	0.005	2.28	0.265	0.006	0	0	0	0.027	---	---	0.317	1980
1981	---	---	0.057	0.089	0.006	0.015	0.075	0	0.070	0.570	---	---	0.111	1981
1982	---	---	0.083	3.41	1.23	1.78	0.761	0.637	0.072	1.07	---	---	1.12	1982
1983	---	---	0.368	5.50	1.19	0.837	0.657	0.034	0	0.009	---	---	1.06	1983
1984	---	---	0.032	0.431	0.043	5.09	1.11	0.014	0	0.052	---	---	0.835	1984
1985	---	---	0.335	1.09	0.886	0.505	0.407	0.185	0.181	0.234	---	---	0.446	1985
1986	---	---	0.401	5.81	10.1	0.878	0.310	0.118	0.030	0.085	---	---	2.21	1986
MEAN	---	---	0.186	5.74	4.44	2.89	1.23	0.390	0.519	0.608	---	---	1.91	MEAN

LOCATION - LAT 49 53 07 N, LONG 96 21 57 W DRAINAGE AREA 850 km^2 NATURAL FLOW

BROKENHEAD RIVER NEAR VIVIAN - STATION NO 05SA004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	40.8 ON APR 15	0 ON AUG 15 *	---	1960
1961	---	2.78 B ON MAR 30	0 B ON MAR 1	9 270	1961
1962	---	11.5 ON MAY 27	0 0088 ON MAR 1	53 500	1962
1963	---	9.12 ON JUL 1	0 B ON MAR 1	52 900	1963
1964	---	11.4 ON APR 17	0 B ON MAR 1	35 300	1964
1965	---	11.8 ON APR 16	0 ON MAR 1	52 100	1965
1966	---	21.9 ON APR 13	0.017 ON AUG 25	129 000	1966
1967	---	26.4 ON APR 24	0 ON JUL 15	65 400	1967
1968	---	4.59 ON JUN 15	0 ON MAR 1	30 300	1968
1969	---	32.3 ON APR 14	0 B ON MAR 1	49 000	1969
1970	13.2 AT 16 15 CST ON MAY 30	13.2 ON MAY 30	0 B ON MAR 1	58 000	1970
1971	11.3 AT 16 07 CST ON APR 8	9.03 ON APR 13	0 B ON MAR 1	23 300	1971
1972	10.6 AT 14 28 CST ON APR 18	10.5 ON APR 18	0 B ON MAR 1	21 200	1972
1973	8.07 AT 10 05 CST ON OCT 15	8.01 ON OCT 15	0 B ON MAR 1	34 800	1973
1974	75.3 AT 06 51 CST ON APR 24 *	74.5 ON APR 24 *	0 B ON MAR 1	132 000	1974
1975	6.00 AT 14 01 CST ON JUL 1	5.95 ON JUL 1	0 B ON MAR 1	24 900	1975
1976	8.18 AT 23 33 CST ON APR 18	8.13 ON APR 19	0 E ON AUG 25	28 900	1976
1977	4.53 AT 08 48 CST ON SEP 15	4.50 ON SEP 28	0 B ON MAR 1	16 100	1977
1978	24.5 AT 20 43 CST ON APR 21	23.7 ON APR 22	0 B ON MAR 1	50 700	1978
1979	14.4 AT 06 34 CST ON MAY 2	14.3 ON MAY 2	0 B ON MAR 1	51 600	1979
1980	---	6.02 A ON APR 11	0 ON JUN 9	8 700	1980
1981	0.837 AT 00 01 CST ON OCT 31	0.822 ON OCT 31	0 B ON MAR 1	2 350	1981
1982	7.41 AT 14 20 CST ON APR 18	7.36 ON APR 18	0 B ON MAR 1	23 800	1982
1983	10.2 B AT 08 01 CST ON APR 7	9.66 ON APR 11	0 B ON MAR 1	22 500	1983
1984	12.9 AT 01 23 CST ON JUN 19	12.6 ON JUN 19	0 B ON MAR 1	17 700	1984
1985	4.30 B AT 00 02 CST ON APR 3	3.71 B ON APR 2	0 B ON MAR 1	9 450	1985
1986	15.8 AT 12 38 CST ON MAY 8	15.7 ON MAY 8	0 B ON MAR 1	45 900	1986
				40 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BUFFALO LAKE CHANNEL NEAR ALTONA - STATION NO 05DC025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0	0.058	0.080	0.076	0	0	0.019	0.012	---	---	0.032	1977
1978	---	---	0.840	5.67	0.273	0.505	0.001	0	0.041	0.073	---	---	0.912	1978
1979	---	---	0	17.2	1.39	0.384	0.106	0.014	0.006	0	---	---	2.35	1979
1980	---	---	0.041	0.400	0.013	0	0.015	0.016	0.013	0.010	---	---	0.083	1980
1981	---	---	0.299	0.044	0.031	0.028	0	0	0	0	---	---	0.051	1981
1982	---	---	0.132	2.17	0.086	0.140	0.004	0	0	0.138	---	---	0.328	1982
1983	---	---	0.089	2.21	0.054	0.029	0.008	0	0	0	---	---	0.234	1983
1984	---	---	0.043	0.048	0.029	0.009	0	0	0	0	---	---	0.016	1984
1985	---	---	1.53	0.176	0	0	0.035	0.247	0.232	0.120	---	---	0.284	1985
1986	---	---	1.61	1.07	0.380	0.001	0	0.013	0	0	---	---	0.383	1986
MEAN	---	---	0.458	2.90	0.233	0.115	0.017	0.029	0.031	0.035	---	---	0.472	MEAN

LOCATION - LAT 49 05 28 N LONG 97 35 35 W
DRAINAGE AREA 453 km^2
NATURAL FLOW

BUFFALO LAKE CHANNEL NEAR ALTONA - STATION NO 05DC025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0.570RB ON APR 3	0B ON MAR 1 *	672	1977
1978	---	31.1 RB ON APR 8	0B ON MAR 1	18 300	1978
1979	---	127 A ON APR 20 *	0B ON MAR 1	49 700	1979
1980	---	2.50 B ON APR 2	0B ON MAR 1	1 330	1980
1981	---	0.868B ON MAR 14	0 ON APR 15	1 070	1981
1982	---	17.0 B ON APR 13	0B ON MAR 1	6 850	1982
1983	13.48 AT 21 20 CST ON APR 4 *	11.4 B ON APR 5	0B ON MAR 1	6 220	1983
1984	---	0.444B ON MAR 28	0B ON MAR 1	343	1984
1985	13.08 AT 17 00 CST ON MAR 19	11.1 B ON MAR 19	0B ON MAR 1	6 220	1985
1986	---	12.1 B ON MAR 25	0B ON MAR 1	8 080	1986
				9 980	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

BURNT LAKE DRAIN NO 1 NEAR DEERHORN - STATION NO OSLN002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.53	0.961	0.385	0.092	0.042	0.003	0	---	---	0.709	1960
1961	---	---	0.048	0.234	0.106	0	0	0	0	0	---	---	0.087	1961
1962	---	---	0	0.109	0.071	0.064	0	0.013	0.006	0.001	---	---	0.080	1962
1963	---	---	0.036	1.64	0.555	4.81	1.57	0.571	0.057	0	---	---	1.74	1963
1964	---	---	0	0.059	0.083	0.002	0	0	0	0	---	---	0.036	1964
1965	---	---	0	0.554	1.26	0.729	0.111	0.037	0.018	0.006	---	---	0.536	1965
1966	---	---	0.286	1.53	1.02	0.086	0.006	0	0	0	---	---	0.727	1966
1967	---	---	0	0.695	0.382	0.013	0.008	0	0	0	---	---	0.274	1967
1968	---	---	0	0.027	0.020	0.032	0.004	0.053	0.503	0.073	---	---	0.019	1968
1969	---	---	0	1.06	0.246	0.050	0.035	0.090	0.007	0.010	---	---	0.335	1969
1970	---	---	0	0.586	1.09	0.171	0.047	0.001	0	0	---	---	0.462	1970
1971	---	---	0	0.261	0.093	0.007	0.006	0	0	0	---	---	0.080	1971
1972	---	---	0	0.273	0.072	0.006	0.001	0.001	0	0	---	---	0.087	1972
1973	---	---	0.016	0.008	0.005	0.070	---	0.021	0.011	0.027	---	---	0.024	1973
1974	---	---	0	2.09	4.07	0.944	---	0.051	0.020	0.011	---	---	1.78	1974
1975	---	---	0	0.101	---	---	---	2.29	2.05	0.785	---	---	---	1975
1976	---	---	0.144	8.50	2.45	0.580	---	0.034	0.005	0.005	---	---	2.89	1976
1977	---	---	0.003	0.029	0.055	0.049	---	---	---	---	---	---	0.034	1977
1978	---	---	0	0.955	0.311	0.086	---	---	---	---	---	---	0.330	1978
1979	---	---	0	0.805	3.74	1.54	---	---	---	---	---	---	1.53	1979
1980	---	---	0	0.280	0.090	0.016	---	---	---	---	---	---	0.085	1980
1981	---	---	0.031	0.199	0.051	0.032	---	---	---	---	---	---	0.080	1981
1982	---	---	0.007	0.357	0.250	0.148	---	---	---	---	---	---	0.190	1982
1983	---	---	0.001	0.998	0.238	0.078	---	---	---	---	---	---	0.325	1983
1984	---	---	0	0.002	0.009	---	---	---	---	---	---	---	---	1984
1985	---	---	0.003	0.318	0.011	0.007	---	---	---	---	---	---	0.084	1985
1986	---	---	0.083	3.20	4.74	1.03	---	---	---	---	---	---	2.27	1986
MEAN	---	---	0.024	0.978	0.846	0.435	0.145	0.188	0.158	0.053	---	---	0.586	MEAN

LOCATION - LAT 50 45 39 N DRAINAGE AREA 334 km²
LONG 88 02 27 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BURNT LAKE DRAIN NO 1 NEAR DEERHORN - STATION NO OSLN002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	4.30 ON APR 19	0 B ON MAR 1 *	7 480	1960
1961	---	0.368 ON MAR 30	0 B ON MAR 1	1 020	1961
1962	---	0.685 ON APR 22	0 B ON MAR 1	836	1962
1963	---	12.3 ON JUN 12	0 B ON MAR 1	18 300	1963
1964	---	0.2688 ON APR 20	0 B ON MAR 1	380	1964
1965	---	4.42 ON MAY 28	0 B ON MAR 1	6 710	1965
1966	---	4.64 B ON APR 1	0 B ON MAR 1	7 670	1966
1967	---	2.63 B ON APR 17	0 B ON MAR 1	2 880	1967
1968	---	0.083 ON APR 12	0 B ON MAR 1	205	1968
1969	---	2.94 ON APR 17	0 B ON MAR 1	3 530	1969
1970	---	2.41 B ON APR 19	0 B ON MAR 1	4 870	1970
1971	---	0.719 ON APR 15	0 B ON MAR 1	946	1971
1972	---	1.16 ON APR 18	0 B ON MAR 1	917	1972
1973	---	0.193 ON JUN 21	0 B ON MAR 1	256	1973
1974	---	5.55 ON MAY 3	0 B ON MAR 1	18 800	1974
1975	---	---	---	---	1975
1976	---	13.0 ON APR 20 *	0 1448 ON MAR 1	30 400	1976
1977	---	0.176 ON MAY 19	0 B ON MAR 1	357	1977
1978	---	2.28 ON APR 18	0 B ON MAR 1	3 470	1978
1979	---	5.35 ON MAY 3	0 B ON MAR 1	16 100	1979
1980	---	0.800 ON APR 18	0 B ON MAR 1	1 010	1980
1981	0.321 AT 00 00 CST ON APR 8	0.312E ON APR 4	0 B ON MAR 1	846	1981
1982	---	1.03 B ON APR 16	0 B ON MAR 1	2 000	1982
1983	---	1.93 B ON APR 6	0 B ON MAR 1	3 430	1983
1984	---	---	0 B ON MAR 1	---	1984
1985	1.12 B AT 12 50 CST ON APR 4	0.850B ON APR 4	0 B ON MAR 1	883	1985
1986	8.65 AT 18 49 CST ON MAY 7 *	8.58 ON MAY 7	0 B ON MAR 1	23 900	1986
				6 280	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

BURNT LAKE DRAIN NO 2 NEAR LUNDAR - STATION NO 05LN003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	2.82	1.43	0.384	0.125	0.008	0	0	---	---	0.590	1980
1981	---	---	0.076	0.190	0.109	0.001	0	0	0.006	0	---	---	0.048	1981
1982	---	---	0	0.419	0.107	0.084	0	0.027	0.003	0	---	---	0.079	1982
1983	---	---	0.158	3.51	0.503	5.77	2.00	0.754	0.191	0.076	---	---	1.74	1983
1984	---	---	0	0.308	0.229	0.009	0	0	0	0	---	---	0.068	1984
1985	---	---	0	0.757	1.32	0.752	0.139	0.036	0.020	0.013	---	---	0.378	1985
1986	---	---	0.234	1.78	1.81	0.143	0.014	0	0	0	---	---	0.509	1986
1987	---	---	0	1.43	0.485	0.029	0.001	0	0	0	---	---	0.241	1987
1988	---	---	0.032	0.191	0.067	0.080	0.008	0.044	0.829	0.131	---	---	0.170	1988
1989	---	---	0	1.83	0.298	0.056	0.039	0.218	0.012	0.013	---	---	0.304	1989
1970	---	---	0	1.19	1.29	0.201	0.059	0.003	0.001	0.001	---	---	0.341	1970
1971	---	---	0	0.487	0.117	0.013	0.031	0	0	0.001	---	---	0.080	1971
1972	---	---	0	0.708	0.108	0.010	0	0.001	0	0	---	---	0.102	1972
1973	---	---	0.055	0.009	0.009	0.333	0.034	0.020	0.015	0.055	---	---	0.085	1973
1974	---	---	0	4.52	11.0	2.84	0.204	0.057	0.032	0.016	---	---	2.35	1974
1975	---	---	0	0.390	0.718	0.324	0.098	5.18	7.82	4.83	---	---	2.38	1975
1976	---	---	0.142	16.1	5.50	1.04	0.490	0.036	0.005	0.006	---	---	2.88	1976
1977	---	---	0.018	0.092	0.123	0.182	0.260	0.060	0.221	0.241	---	---	0.150	1977
1978	---	---	0	1.82	0.673	0.147	0.295	0.007	0.018	0.008	---	---	0.367	1978
1979	---	---	0	5.06	7.58	3.80	0.842	0.094	0.032	0.023	---	---	2.14	1979
1980	---	---	0	0.490	0.074	0.024	0.072	0.874	0.523	0.271	---	---	0.285	1980
1981	---	---	0.202	0.371	0.062	0.035	0.480	0.005	0.016	0.103	---	---	0.180	1981
1982	---	---	0.014	0.680	0.419	0.356	0.227	0.053	0.011	0.016	---	---	0.220	1982
1983	---	---	0.011	1.64	0.388	0.170	0.176	0.017	0.146	0.535	---	---	0.382	1983
1984	---	---	0.023	0.028	0.026	0.028	0.015	0	0.005	0.033	---	---	0.020	1984
1985	---	---	0.175	0.701	0.060	0.024	0.003	0.280	0.264	0.388	---	---	0.233	1985
1986	---	---	0.424	7.63	10.3	1.28	0.978	0.432	0.043	0.080	---	---	2.84	1986
MEAN	---	---	0.058	2.04	1.87	0.704	0.244	0.295	0.371	0.252	---	---	0.700	MEAN

LOCATION - LAT 50 43 17 N DRAINAGE AREA, 746 km²
LONG 98 05 24 W NATURAL FLOW

BURNT LAKE DRAIN NO. 2 NEAR LUNDAR - STATION NO 05LN003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	7.05 ON APR 18	0 B ON MAR 1 *	12 500	1980
1981	---	0.388 ON APR 1	0 B ON MAR 1	1 010	1981
1982	---	3.82 B ON APR 20	0 B ON MAR 1	1 870	1982
1983	---	18.2 ON JUN 11	0 B ON MAR 1	35 700	1983
1984	---	1.01 ON APR 18	0 B ON MAR 1	1 440	1984
1985	---	5.21 ON MAY 27	0 B ON MAR 1	8 000	1985
1986	---	5.35 B ON APR 1	0 B ON MAR 1	10 800	1986
1987	---	6.46 B ON APR 22	0 B ON MAR 1	5 100	1987
1988	---	2.82 ON SEP 3	0 B ON MAR 1	3 810	1988
1989	---	6.14 ON APR 12	0 B ON MAR 1	8 450	1989
1970	---	3.98 B ON APR 18	0 B ON MAR 1	7 220	1970
1971	---	2.13 ON APR 19	0 B ON MAR 1	1 890	1971
1972	---	3.17 ON APR 16	0 B ON MAR 1	2 180	1972
1973	---	1.36 ON JUN 20	0 B ON MAR 1	1 390	1973
1974	---	14.4 ON MAY 22	0 B ON MAR 1	49 800	1974
1975	---	14.2 ON AUG 25	0 B ON MAR 1	50 500	1975
1976	---	27.8 ON APR 19 *	0.0018 ON OCT 26	80 900	1976
1977	---	0.888 ON SEP 9	0 B ON MAR 1	3 170	1977
1978	---	3.45 ON APR 15	0 B ON MAR 1	7 780	1978
1979	19.6 AT 02 15 CST ON APR 21 *	18.5 ON APR 21	0 B ON MAR 1	45 400	1979
1980	7.03 AT 12 30 CST ON AUG 21	5.78 ON AUG 21	0 B ON MAR 1	5 610	1980
1981	5.74 AT 04 46 CST ON JUL 3	4.15 ON JUL 3	0 B ON MAR 1	3 380	1981
1982	2.85 B AT 08 44 CST ON APR 15	2.27 B ON APR 15	0 B ON MAR 1	4 850	1982
1983	4.33 B AT 18 53 CST ON APR 8	3.87 B ON APR 7	0 B ON MAR 1	8 090	1983
1984	0.3418 AT 09 19 CST ON MAR 31	0.1558 ON MAR 31	0 B ON MAR 1	420	1984
1985	3.13 AT 14 30 CST ON APR 5	2.32 ON APR 5	0 B ON MAR 1	4 940	1985
1986	18.8 AT 17 59 CST ON MAY 6	18.7 ON MAY 6	0 B ON MAR 1	55 900	1986
				14 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNTWOOD RIVER ABOVE LEAF RAPIDS - STATION NO 05TE002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	---	---	---	---	---	---	---	---	---	---	---	1985
1986	7.81	6.27	4.86	14.8	104	71.1	88.2	88.2	30.5	25.2	17.3	9.55	---	1986
									31.8	23.7	14.6	10.1	35.7	1986
MEAN	7.81	6.27	4.86	14.8	104	71.1	88.2	88.2	31.2	24.5	16.0	9.83	35.7	MEAN

LOCATION - LAT 55 30 00 N DRAINAGE AREA, 5 280 km²
LONG 99 13 20 W REGULATED

BURNTWOOD RIVER ABOVE LEAF RAPIDS - STATION NO. 05TE002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	---	---	---	1985
1986	172 AT 15:00 CST ON MAY 16 *	172 ON MAY 16 *	4.108 ON APR 4 *	1 130 000	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 130 000	MEAN

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	9.42	7.11	5.52	27.3	74.7	80.5	58.3	41.3	38.5	30.0	29.4	15.3	34.9	1977
1978	11.8	8.94	5.52	5.73	---	33.8	---	36.8	27.1	88.9	32.5	17.8	---	1978
1979	12.6	8.97	6.34	5.85	89.7	98.4	51.0	---	---	40.6	22.7	12.0	---	1979
1980	9.25	8.06	7.67	24.1	25.3	19.2	17.1	---	74.1	84.4	34.1	19.0	---	1980
1981	14.1	9.73	7.22	5.86	83.7	38.4	30.4	25.3	13.0	22.5	22.9	13.3	24.0	1981
1982	10.7	8.08	6.72	12.3	132	82.2	40.2	30.4	23.0	23.6	17.3	10.2	33.2	1982
1983	8.77	7.58	6.76	17.3	104	70.7	48.5	33.2	38.6	39.2	27.8	17.1	35.1	1983
1984	11.3	8.48	6.82	60.4	78.5	55.2	46.2	32.4	56.8	65.5	42.1	25.5	40.8	1984
1985	15.2	10.7	9.52	49.0	104	104	78.9	---	---	---	---	---	---	1985
MEAN	11.5	8.83	6.91	23.1	84.0	84.7	46.3	33.2	38.7	44.3	28.6	15.3	33.6	MEAN

LOCATION - LAT 55 27 50 N DRAINAGE AREA, 6 880 km^2
LONG 89 05 00 W NATURAL FLOW

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	131 DN MAY 27	130 DN MAY 28	4.868 ON MAR 30	1 100 000	1977
1978	---	85.8 ON OCT 5	4.538 ON APR 21	---	1978
1979	130 AT 20:40 CST ON JUN 2	130 DN JUN 2	4.308 ON APR 21 *	---	1979
1980	---	---	7.598 ON MAR 28	---	1980
1981	160 AT 13:30 CST ON MAY 9	156 DN MAY 9	5.518 ON APR 28	758 000	1981
1982	194 AT 18:10 CST ON MAY 3 *	188 DN MAY 3 *	5.788 ON APR 23	1 050 000	1982
1983	119 AT 01:15 CST ON MAY 22	118 DN MAY 21	6.128 ON APR 19	1 110 000	1983
1984	151 AT 22:36 CST ON APR 21	151 DN APR 22	6.258 ON APR 7	1 290 000	1984
1985	188 AT 18:00 CST ON APR 29	185 DN APR 29	---	---	1985
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 080 000	MEAN

BURNTWOOD RIVER NEAR THOMPSON - STATION NO 05TG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	83.7	50.3	37.4	---	1957
1958	28.1	21.7	22.3	44.5	132	158	118	88.4	80.7	131	120	75.1	85.4	1958
1959	41.0	32.3	16.1	16.1	213	480	342	204	185	161	119	71.2	158	1959
1960	38.4	27.4	24.5	21.5	141	410	238	107	58.2	32.9	23.8	13.7	94.7	1960
1961	9.45	8.38	7.83	8.52	68.9	158	108	74.2	45.0	32.6	27.7	24.1	47.8	1961
1962	20.0	17.5	15.3	13.1	264	440	268	127	75.4	80.0	48.3	36.7	116	1962
1963	27.5	21.8	18.9	25.2	242	298	198	125	124	120	134	70.7	118	1963
1964	36.0	25.0	21.2	21.4	196	224	119	135	239	222	143	84.5	122	1964
1965	56.0	40.9	28.7	23.8	254	408	279	137	94.7	98.3	86.2	63.8	131	1965
1966	49.5	38.6	28.7	25.8	176	508	380	188	98.8	51.5	28.8	21.8	133	1966
1967	20.2	18.0	16.6	14.5	76.4	298	230	146	88.6	42.0	34.4	29.4	83.2	1967
1968	28.0	23.6	20.1	21.3	191	280	182	119	98.0	167	158	107	115	1968
1969	67.4	38.1	25.1	55.5	156	168	124	79.6	182	368	286	158	141	1969
1970	80.8	53.5	35.8	25.9	139	267	352	205	127	100	152	117	139	1970
1971	87.5	43.4	31.0	44.8	201	227	242	221	185	224	286	191	163	1971
1972	119	80.3	62.7	41.8	257	263	235	175	134	155	128	83.1	145	1972
1973	54.7	39.5	32.1	23.8	127	185	189	133	103	88.8	82.0	70.2	92.7	1973
1974	53.1	40.9	25.2	23.6	183	181	124	85.4	41.9	33.0	25.5	18.6	68.2	1974
1975	18.2	15.6	12.9	13.8	89.4	168	140	104	70.0	88.8	82.1	28.3	67.5	1975
1976	40.1	82.9	86.0	88.0	84.1	146	238	181	163	281	333	352	158	1976
1977	370	389	350	404	485	540	534	570	845	911	933	924	804	1977
1978	877	881	856	891	842	853	913	887	863	986	983	930	858	1978
1979	925	935	937	890	778	902	798	780	822	851	915	894	868	1979
1980	854	886	900	918	859	825	864	878	941	938	939	974	887	1980
1981	881	882	935	944	957	950	1 080	1 080	925	688	667	655	900	1981
1982	583	581	589	588	830	885	894	878	980	1 010	1 010	991	785	1982
1983	934	880	555	583	814	843	912	907	916	971	1 000	987	839	1983
1984	955	839	937	1 050	1 120	1 110	1 060	967	789	835	956	989	976	1984
1985	987	894	950	845	1 040	1 080	1 040	1 080	934	894	954	935	976	1985
1986	840	782	718	707	935	772	728	734	922	1 100	1 040	954	853	1986
MEAN	316	297	284	280	402	475	438	391	383	390	389	383	370	MEAN

LOCATION - LAT 55 44 40 N DRAINAGE AREA, 18 500 km^2
LONG 97 53 30 W REGULATED SINCE 1973

REMARKS - DISCHARGE RECORDS FOR 1957-61 WERE PUBLISHED UNDER THE TITLE "BURNTWOOD RIVER AT MANASAN FALLS"

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	---	---	---	
1959	---	188 ON JUN 13	20.4 B ON FEB 13	2 880 000	1958
		486 ON JUN 19	11.9 B ON APR 8	4 900 000	1959
1960	---				
1961	---	459 ON JUN 8	11.8 E ON DEC 21	2 990 000	1960
1962	507 AT 09 00 CST ON MAY 30	184E ON JUN 11	7.79E ON MAR 21 *	1 510 000	1961
1963	---	504 ON MAY 28	12.6 B ON APR 24	3 660 000	1962
1964	278 AT 17 00 CST ON SEP 22	331 ON MAY 31	17.8 B ON APR 4	3 710 000	1963
		277 ON SEP 22	16.8 B ON APR 10	3 870 000	1964
1965	450 AT 14 30 CST ON JUN 12				
1966	---	450 ON JUN 12	20.2 ON APR 22	4 140 000	1965
1967	314 AT 16 30 CST ON JUN 13	578 ON JUN 19	18.9 ON DEC 31	4 210 000	1966
1968	---	311E ON JUN 11	14.0 A ON APR 27	2 630 000	1967
1969	416 AT 13 00 CST ON OCT 16	287 ON MAY 26	18.4 ON APR 3	3 630 000	1968
		416 ON OCT 15	21.3 E ON MAR 29	4 440 000	1969
1970	---				
1971	300 AT 05 56 CST ON NOV 7	396 ON JUL 8	21.0 ON APR 16	4 370 000	1970
1972	284 AT 06 41 CST ON MAY 26	300 ON NOV 7	27.2 ON APR 14	5 130 000	1971
1973	---	289 ON MAY 23	28.7 E ON APR 23	4 580 000	1972
1974	220 AT 08 30 CST ON MAY 17	196 ON JUN 4	21.0 ON APR 28	2 920 000	1973
		216 ON MAY 17	14.8 ON APR 18	2 150 000	1974
1975	186 AT 06 00 CST ON JUL 2				
1976	377 AT 17 30 CST ON DEC 31	178 ON JUN 29	10.3 ON APR 12	2 130 000	1975
1977	843 AT 12 00 CST ON NOV 15	374 ON DEC 30	22.5 ON JAN 1	5 320 000	1976
1978	---	940 ON NOV 15	340 B ON APR 2	19 100 000	1977
1979	---	980 ON OCT 13	800 B ON APR 29	27 100 000	1978
		9378 ON FEB 15	882 B ON MAY 13	27 400 000	1979
1980	981 AT 21 25 CST ON SEP 28				
1981	1 130 AT 21 30 CST ON JUL 26	979 ON SEP 24	789 ON MAY 30	28 400 000	1980
1982	1 030 AT 10 04 CST ON SEP 29	1 120 ON JUL 25	819 B ON DEC 31	28 400 000	1981
1983	---	1 030 ON SEP 29	575 B ON JAN 19	24 700 000	1982
1984	---	1 020E ON NOV 23	533 B ON APR 18	26 500 000	1983
		1 320 ON APR 28 *	778 ON SEP 15	30 900 000	1984
1985	1 200 AT 20 30 CST ON JUN 25 *				
1986	1 150 ON MAY 18	1 180 ON JUN 25	782 B ON APR 18	30 800 000	1985
		1 150 ON MAY 19	880 ON JUL 2	25 900 000	1986
MEAN				11 700 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 06EA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1949	---	---	---	---	---	---	---	---	---	---	---	---	---	1949
1951	---	---	---	---	---	---	---	---	---	---	---	---	---	
1952	848	823	612	595	817	592	---	1 080	1 020	954	827	705	---	1951
1953	555	535	535	532	612	870	803	612	571	583	595	589	803	1952
1954	612	595	578	558	566	742	870	678	838	628	609	620	807	1953
							778	939	1 270	1 230	1 150	1 010	837	1954
1955	841	714	680	704	1 020	1 130	1 080	958	822	726	785	818	858	1955
1956	778	722	688	634	897	784	838	584	538	537	535	535	638	1956
1957	547	561	558	547	694	646	816	880	758	706	673	683	688	1957
1958	685	666	652	657	782	884	927	881	817	879	814	775	786	1958
1959	738	690	644	622	770	1 140	1 420	1 340	1 200	1 070	958	821	953	1959
1960	732	700	688	678	779	1 200	1 480	1 520	1 280	1 140	994	847	1 010	1960
1961	771	715	708	720	862	1 080	1 010	830	891	881	706	890	788	1961
1962	693	706	712	697	984	1 340	1 090	905	833	783	757	726	852	1962
1963	728	743	788	787	912	1 000	1 040	1 080	939	823	840	778	878	1963
1964	736	723	721	781	850	882	719	781	936	1 080	1 010	820	848	1964
1965	883	823	784	784	977	1 120	1 020	953	931	984	928	878	917	1965
1966	798	778	785	813	873	1 010	1 080	917	777	868	856	851	814	1966
1967	855	881	700	889	708	819	947	912	811	676	832	861	781	1967
1968	886	729	787	744	884	838	732	858	889	735	735	706	738	1968
1969	706	732	719	731	850	785	703	844	833	823	839	789	789	1969
1970	729	713	708	702	786	881	1 010	896	873	788	755	737	807	1970
1971	722	683	570	523	863	720	738	1 040	1 240	1 290	1 100	940	884	1971
1972	902	887	871	883	1 110	1 200	1 100	862	852	911	900	854	880	1972
1973	848	844	828	824	940	985	918	879	898	888	839	838	876	1973
1974	815	800	821	849	1 130	1 240	1 420	1 440	1 400	1 310	1 150	1 040	1 120	1974
1975	940	896	932	924	1 120	1 270	1 180	1 140	1 120	1 100	951	814	1 030	1975
1976	780	813	804	811	748	886	998	1 130	1 180	1 280	1 200	987	950	1976
1977	897	879	878	908	1 030	1 180	1 420	1 460	1 370	1 080	918	858	1 070	1977
1978	857	878	860	814	881	881	924	873	863	1 040	1 130	994	914	1978
1979	918	888	903	881	937	1 050	928	775	895	781	909	899	881	1979
1980	903	887	888	905	898	720	893	708	810	---	---	---	---	1980
1981	---	820	777	751	822	782	884	580	---	---	---	---	---	1981
1982	813	585	558	513	883	862	833	527	548	507	498	614	578	1982
1983	688	677	654	632	712	880	840	581	580	859	818	784	880	1983
1984	738	745	733	807	853	781	780	699	850	822	888	722	736	1984
1985	739	730	719	881	904	949	958	842	685	821	582	591	749	1985
1986	883	741	750	750	885	903	780	873	748	879	712	758	771	1986
MEAN	751	740	729	724	842	929	929	907	880	871	829	781	827	MEAN

LOCATION - LAT 58 09 00 N
LONG 100 27 30 W
DRAINAGE AREA, 330 000 km^2
REGULATED SINCE 1928

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 05EA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1949	---	1 700 ON AUG 29 *	---	---	1949
1951	---	---	---	---	1951
1952	---	848E ON JAN 1	584 ON SEP 14	19 100 000	1952
1953	---	711 ON AUG 6	532E ON APR 1	18 200 000	1953
1954	---	1 290E ON SEP 7	558E ON APR 1	26 400 000	1954
1955	---	1 170 ON MAY 29	880E ON MAR 1	27 000 000	1955
1956	---	810E ON JUN 1	521E ON SEP 27	20 100 000	1956
1957	---	903 ON AUG 14	547E ON JAN 1	21 700 000	1957
1958	---	934E ON JUL 11	637E ON APR 11	24 800 000	1958
1959	1 480 AT 18:00 CST ON JUL 15	1 450 ON JUL 14	620E ON APR 13	30 100 000	1959
1960	---	1 580E ON AUG 1	888E ON MAY 1	31 800 000	1960
1961	---	1 100E ON JUN 11	843 ON SEP 27	24 900 000	1961
1962	---	1 370E ON JUN 1	685E ON JAN 1	26 900 000	1962
1963	---	1 180 ON JUL 29	725 ON JAN 1	27 700 000	1963
1964	---	1 100 ON OCT 10	885 ON JUL 31	26 800 000	1964
1965	---	1 160E ON JUN 1	758E ON APR 21	28 900 000	1965
1966	---	1 110 ON JUL 1	846 ON NOV 24	25 700 000	1966
1967	---	968E ON JUN 19	629 ON NOV 3	23 700 000	1967
1968	---	898E ON JUN 3	637 ON AUG 24	23 400 000	1968
1969	---	934 ON OCT 13	637 ON AUG 12	24 300 000	1969
1970	---	1 050 ON JUL 21	887 ON MAR 25	25 500 000	1970
1971	1 340 AT 01:13 CST ON OCT 13	1 330 ON OCT 12	501 ON APR 16	26 900 000	1971
1972	1 220 AT 20:28 CST ON JUN 18	1 220 ON JUN 17	824 ON SEP 21	30 100 000	1972
1973	1 020 AT 19:00 CST ON MAY 23	1 020 ON MAY 23	816 ON APR 12	27 800 000	1973
1974	---	1 480 ON JUL 24	793 ON FEB 19	35 300 000	1974
1975	1 300 AT 17:15 CST ON JUN 12	1 290 ON JUN 8	784 ON DEC 25	32 500 000	1975
1976	1 300 AT 20:05 CST ON OCT 26	1 300 ON OCT 27	880 ON JUN 14	30 000 000	1976
1977	1 480 AT 19:00 CST ON JUL 26 *	1 480 ON JUL 22	847 ON DEC 20	33 900 000	1977
1978	1 220 AT 09:50 CST ON NOV 1	1 210 ON OCT 30	801 ON APR 21	28 800 000	1978
1979	1 070 AT 16:49 CST ON JUN 18	1 070 ON JUN 18	885 ON SEP 21	27 800 000	1979
1980	---	975 ON MAY 3	884 ON JUL 3	---	1980
1981	875 AT 17:27 CST ON MAY 20	869 ON MAY 20	---	---	1981
1982	738 AT 18:00 CST ON MAY 22	730 ON MAY 21	488 ON NOV 3 *	18 200 000	1982
1983	889 AT 14:30 CST ON OCT 15	892 ON OCT 15	500 ON SEP 12	21 800 000	1983
1984	954 AT 18:10 CST ON MAY 2	942 ON MAY 2	596 ON OCT 16	23 300 000	1984
1985	988 AT 19:00 CST ON JUL 2	984 ON JUL 2	574E ON NOV 25	23 600 000	1985
1986	987 AT 16:16 CST ON JUN 6	956 ON JUN 6	627E ON JAN 1	24 300 000	1986
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		26 100 000	MEAN

E - ESTIMATED

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 05EB004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	910	901	875	885	985	1 100	1 070	950	937	921	931	918	947	1973
1974	895	854	866	897	1 190	1 410	1 540	1 580	1 520	1 390	1 250	1 140	1 220	1974
1975	1 080	987	996	976	1 180	1 410	1 380	1 300	1 210	1 190	1 090	933	1 140	1975
1976	880	884	887	885	885	855	1 100	1 300	1 330	1 430	1 450	1 280	1 090	1976
1977	1 030	974	980	986	1 220	1 450	1 540	1 590	1 530	1 320	1 100	994	1 220	1977
1978	949	951	939	900	979	1 040	1 080	1 030	1 040	1 140	1 280	1 150	1 040	1978
1979	1 040	986	951	923	963	1 150	1 090	910	823	856	956	982	968	1979
1980	972	882	857	953	1 010	888	847	894	961	1 050	1 000	950	954	1980
1981	841	827	874	827	888	924	804	707	659	885	700	715	802	1981
1982	699	685	682	---	783	---	---	767	750	698	646	685	---	1982
1983	738	746	728	712	783	882	821	777	791	---	---	935	---	1983
1984	880	853	826	858	991	922	891	839	786	757	772	787	847	1984
1985	782	789	776	748	984	1 130	1 180	1 030	841	747	699	704	887	1985
1986	734	781	774	774	900	1 070	1 020	1 050	938	821	780	799	870	1986
MEAN	894	875	863	858	982	1 090	1 100	1 050	1 010	899	974	925	997	MEAN

LOCATION - LAT 56 29 37 N DRAINAGE AREA, 244 000 km^2
LONG 100 02 55 W REGULATED SINCE 1928

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 05EB004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	1 120 ON JUN 5	855 ON APR 18	29 900 000	1973
1974	1 630 AT 03:00 CST ON JUL 27 *	1 610 ON JUL 21 *	855 ON FEB 25	38 300 000	1974
1975	1 450 AT 23:08 CST ON JUL 1	1 450 ON JUL 1	875 ON DEC 31	35 100 000	1975
1976	1 510 AT 03:12 CST ON NOV 5	1 480 ON OCT 28	833 ON JUN 19	34 600 000	1976
1977	1 610 AT 23:14 CST ON AUG 11	1 610 ON AUG 11	929E ON APR 10	38 800 000	1977
1978	1 320 AT 03:32 CST ON NOV 8	1 310 ON NOV 8	881 ON APR 22	32 700 000	1978
1979	1 210 AT 04:00 CST ON JUN 26	1 180 ON JUN 25	806 ON SEP 26	30 500 000	1979
1980	1 070 AT 06:05 CST ON OCT 31	1 060 ON OCT 14	833 ON JUL 15	30 200 000	1980
1981	973 AT 05:14 CST ON JUN 30	972 ON MAY 30	645 ON SEP 26	25 300 000	1981
1982	---	---	526 ON APR 26 *	---	1982
1983	---	---	707 ON APR 13	---	1983
1984	1 010 AT 16:20 CST ON MAY 20	1 000 ON MAY 6	739 ON OCT 16	26 800 000	1984
1985	1 200 AT 05:05 CST ON JUL 7	1 190 ON JUL 7	891 ON NOV 23	27 300 000	1985
1986	1 120 AT 12:07 CST ON JUN 13	1 110 ON JUN 13	718 ON JAN 2	27 400 000	1986
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		31 500 000	MEAN

E - ESTIMATED

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO 05FD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	1 480	1 300	1 140	---	---	---	1 840	1 670	1 750	---	---	---	---	1972
1973	---	1 100	1 120	---	---	---	1 300	1 030	842	1 010	1 030	1 130	---	1973
1974	1 150	1 130	1 070	1 020	1 120	1 420	1 520	1 680	1 650	1 610	1 540	1 420	1 360	1974
1975	1 270	1 150	1 090	1 090	1 240	1 640	1 780	1 760	1 890	1 590	1 390	1 100	1 400	1975
1976	885	791	775	1 110	1 360	1 230	672	657	832	1 300	1 250	1 080	895	1976
1977	750	717	702	789	1 570	1 880	1 690	1 250	1 050	838	499	277	1 000	1977
1978	208	208	203	208	354	1 150	750	1 140	1 290	1 000	747	512	851	1978
1979	400	309	237	186	430	1 030	1 110	---	---	---	212	183	---	1979
1980	149	152	158	274	491	820	733	821	1 650	888	582	345	572	1980
1981	288	226	212	204	---	525	235	151	117	260	204	151	---	1981
1982	137	130	124	119	---	761	655	285	309	328	277	220	---	1982
1983	178	134	105	99 7	229	---	327	---	---	903	483	265	---	1983
1984	201	177	157	---	---	---	---	---	91 9	151	197	157	---	1984
1985	134	105	96 8	86 3	---	436	355	349	107	180	150	132	---	1985
1986	122	89 6	77 7	86 7	1 190	---	---	---	---	---	---	---	---	1986
MEAN	525	514	485	438	887	1 080	1 000	981	957	837	657	535	998	MEAN

LOCATION - LAT 58 07 15 N DRAINAGE AREA 287 000 km²
LONG 94 37 30 W REGULATED SINCE 1928

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO 05FD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	1 740 AT 08:00 CST ON AUG 10	1 720 ON AUG 9	799 ON NOV 7 1 020 B ON APR 10	43 000 000	1974
1975	1 910 AT 14:57 CST ON JUN 30	1 890 ON JUN 30	988 B ON DEC 31	44 200 000	1975
1976	---	1 850E ON JUN 5	634 ON JUL 10	31 500 000	1976
1977	2 000 AT 20:41 CST ON JUL 2 *	1 980 ON JUL 2	210 B ON DEC 20	31 600 000	1977
1978	1 870 AT 17:37 CST ON SEP 5	1 850 ON SEP 5	202 B ON MAR 25	20 500 000	1978
1979	1 200 AT 08:43 CST ON JUL 17	1 180 ON JUL 17	153 B ON DEC 31	---	1979
1980	---	2 220 ON SEP 8	146 B ON JAN 9	18 100 000	1980
1981	---	---	107 ON SEP 30	---	1981
1982	---	---	---	---	1982
1983	---	---	98.88 ON MAY 6 *	---	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	---	2 850B ON MAY 17 *	---	---	1986
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		31 500 000	MEAN

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 05FB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	1 490	---	---	---	1960
1962	---	---	---	---	---	---	2 140	1 820	---	---	---	---	---	1962
1963	---	---	---	---	---	---	1 580	---	---	---	---	---	---	1963
1964	---	---	---	---	---	---	1 130	---	---	1 340	1 320	1 290	---	1964
1965	1 200	1 110	1 020	1 100	1 250	1 440	1 410	1 300	1 150	---	---	---	---	1965
1966	---	---	---	---	---	---	---	---	---	924	828	794	---	1966
1967	786	740	---	---	---	---	---	---	---	881	---	---	---	1967
1968	745	767	781	800	829	1 310	1 290	1 100	1 010	1 080	1 070	935	985	1968
1969	798	777	793	851	973	1 100	1 110	957	1 130	1 350	1 270	1 100	1 020	1969
1970	893	815	758	899	924	1 320	1 310	1 290	1 270	1 220	1 230	1 100	1 070	1970
1971	942	883	861	797	1 070	1 100	1 820	1 410	1 380	1 530	1 540	1 380	1 210	1971
1972	1 280	1 170	1 130	1 050	1 240	1 470	1 540	1 430	1 280	1 180	1 100	1 120	1 250	1972
1973	1 100	1 030	982	956	1 120	1 240	1 220	890	918	951	1 040	1 080	1 050	1973
1974	1 110	1 070	1 020	977	1 020	1 270	1 430	1 580	1 550	1 520	1 450	1 370	1 280	1974
1975	1 290	1 190	1 100	1 050	1 190	1 440	1 690	1 880	1 540	1 450	1 320	1 080	1 340	1975
1976	979	804	761	1 100	1 240	884	473	525	775	1 110	1 240	1 150	921	1976
1977	995	867	733	756	1 370	1 750	1 550	1 180	919	748	480	258	968	1977
1978	195	199	198	203	408	956	532	759	892	713	711	609	533	1978
1979	535	377	220	189	281	461	848	497	158	188	177	147	337	1979
1980	129	128	127	171	225	348	483	460	1 150	810	386	290	374	1980
1981	241	207	204	198	271	185	99 3	76 1	64 6	184	183	128	170	1981
1982	120	109	113	113	181	248	375	117	138	200	172	135	189	1982
1983	117	88 4	88 8	86 2	93 9	---	---	---	---	---	---	---	---	1983
1984	161	151	137	---	---	---	---	81 7	58 8	130	155	124	---	1984
1985	113	98 4	77 8	---	---	---	245	287	83 0	143	139	114	---	1985
1986	101	88 4	55 8	47 9	274	849	1 080	817	282	145	138	115	298	1986
MEAN	858	803	557	817	781	1 010	1 110	910	842	871	787	717	811	MEAN

LOCATION - LAT 57 15 00 N DRAINAGE AREA 271 000 km²
LONG 96 47 50 W REGULATED SINCE 1928

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO 06FB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	1 550 ON JUN 19	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	1 380 ON JUN 22	735 B ON JAN 1	31 100 000	1968
1969	---	1 400 ON OCT 28	776 B ON FEB 3	32 200 000	1969
1970	---	1 340 ON JUN 15	685 B ON APR 14	33 700 000	1970
1971	1 800 AT 15 31 CST ON JUL 13	1 790 ON JUL 13	782 B ON APR 12	38 300 000	1971
1972	---	1 570 ON JUL 22	1 040 ON APR 18	39 500 000	1972
1973	1 280 AT 19:00 CST ON JUN 14	1 280 ON JUN 14	883 ON AUG 28	33 200 000	1973
1974	1 570 AT 22:00 CST ON AUG 29	1 570 ON AUG 18	955 ON APR 17	40 400 000	1974
1975	1 710 AT 20 45 CST ON JUL 9	1 700 ON JUL 8	1 010 B ON DEC 30	42 100 000	1975
1976	1 560 AT 14:30 CST ON JUN 3	1 540 ON JUN 3	453 ON JUL 8	29 100 000	1976
1977	1 920 AT 14 07 CST ON JUN 22 *	1 910 ON JUN 20 *	199 B ON DEC 20	30 500 000	1977
1978	1 470 AT 20 31 CST ON SEP 2	1 460 ON SEP 4	199 B ON JAN 1	18 800 000	1978
1979	902 AT 14:27 CST ON JUL 16	895 ON JUL 16	116 E ON SEP 23	10 600 000	1979
1980	1 710 AT 14:04 CST ON SEP 7	1 710 ON SEP 7	127 B ON MAR 8	11 800 000	1980
1981	371 AT 20 47 CST ON MAY 22	367 ON MAY 22	60.3 ON SEP 20	5 380 000	1981
1982	---	513 ON JUL 10	96.1 ON AUG 14	5 330 000	1982
1983	---	---	---	---	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	1 320 AT 10 05 CST ON JUL 18	1 310 ON JUL 17	40.58 ON APR 28 *	9 410 000	1986
				25 800 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

COCHRANE RIVER NEAR BROCHET - STATION NO 06DA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	98.9	88 6	77.6	---	---	---	---	189	169	---	---	---	---	1968
1969	142	112	98 1	89.0	122	---	---	---	---	---	---	---	---	1969
1970	114	106	97 3	---	---	---	128	121	149	169	186	137	---	1970
1971	121	112	103	---	---	---	---	---	201	219	199	185	---	1971
1972	143	117	94 8	97 4	190	242	254	234	226	211	177	186	178	1972
1973	147	133	121	110	163	182	188	170	142	134	125	111	145	1973
1974	104	98 1	96 4	95.7	---	---	175	184	176	161	142	129	---	1974
1975	117	108	103	104	178	212	237	220	180	175	154	138	162	1975
1976	130	126	124	146	187	228	238	187	186	216	199	173	180	1976
1977	155	144	139	172	252	314	366	336	286	268	236	194	240	1977
1978	156	131	116	113	209	260	247	272	272	260	226	195	205	1978
1979	170	141	120	111	161	207	204	168	152	153	140	127	155	1979
1980	115	107	103	131	157	148	153	209	248	220	184	152	161	1980
1981	129	122	119	120	178	206	187	184	145	128	108	94.8	143	1981
1982	88.7	85 7	81 8	78 9	171	214	188	160	151	148	131	117	135	1982
1983	108	104	98.8	87.6	116	192	210	223	261	253	217	185	171	1983
1984	148	126	107	145	231	231	203	186	175	162	134	117	164	1984
1985	115	115	115	115	234	246	194	180	187	224	172	128	167	1985
1986	113	109	114	122	243	413	358	281	---	---	---	---	---	1986
MEAN	127	115	107	115	185	236	221	204	195	194	169	144	170	MEAN

LOCATION - LAT 58 00 00 N LONG 101 23 45 W
DRAINAGE AREA 28 400 km^2
NATURAL FLOW

COCHRANE RIVER NEAR BROCHET - STATION NO 06DA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	265 AT 16:00 CST ON JUN 28	264 ON JUN 26	84 1B ON APR 4	5 670 000	1972
1973	203 AT 15 45 CST ON JUN 12	202 ON JUN 13	105 B ON APR 23	4 570 000	1973
1974	---	---	---	---	1974
1975	246 AT 14 17 CST ON JUL 12	243 ON JUL 10	101 B ON APR 6	5 100 000	1975
1976	257 AT 18:25 CST ON JUN 28	255 ON JUN 27	124 B ON FEB 27	5 880 000	1976
1977	388 AT 16:23 CST ON JUL 22 *	385 ON JUL 21	139 B ON MAR 8	7 570 000	1977
1978	306 AT 13 30 CST ON AUG 24	303 ON AUG 23	112 B ON MAR 29	6 470 000	1978
1979	215 AT 19 20 CST ON MAY 22	215 ON MAY 22	110 B ON APR 10	4 870 000	1979
1980	254 AT 10 01 CST ON SEP 1	253 ON AUG 31	102 B ON MAR 21	5 080 000	1980
1981	212 AT 12:00 CST ON JUN 16	212 ON JUN 17	82.1B ON DEC 31	4 510 000	1981
1982	222 AT 19 25 CST ON JUN 15	222 ON JUN 15	78 0B ON APR 18 *	4 280 000	1982
1983	270 AT 19:05 CST ON SEP 27	270 ON SEP 27	96 5B ON MAY 5	5 400 000	1983
1984	257 ON APR 27	254 ON APR 27	83 4B ON APR 9	5 180 000	1984
1985	261 AT 07 45 CST ON MAY 24	258 ON MAY 24	115 B ON JAN 1	5 280 000	1985
1986	---	447A ON JUN 18 *	---	---	1986
				5 380 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CONJURING CREEK NEAR RUSSELL - STATION NO 05ME005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.049	0.051	0.002	0.084	0.018	0	0	0	---	---	0.025	1959
1960	---	---	0	1.05	0.170	0.107	0	0	0	0	---	---	0.184	1960
1961	---	---	0.002	0.001	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.361	0.089	0	0	0	0	0	---	---	0.053	1962
1963	---	---	0.193	0.057	0	0	0	0	0	0	---	---	0.031	1963
1964	---	---	0	0.298	0.080	0	0	0	0	0	---	---	0.048	1964
1965	---	---	0	0.558	0.100	0.015	0	0	0.035	0.036	---	---	0.092	1965
1966	---	---	0.035	0.939	0.225	0.008	0.001	0	0	0	---	---	0.149	1966
1967	---	---	0	0.409	0.251	0.002	0	0	0	0	---	---	0.082	1967
1968	---	---	0.184	0.283	0.008	0	0	0	0	0	---	---	0.060	1968
1969	---	---	0	0.890	0.008	0	0.005	0	0	0	---	---	0.086	1969
1970	---	---	0	0.493	0.385	0.009	0	0	0	0	---	---	0.110	1970
1971	---	---	0	0.480	0.038	0.178	0.148	0.013	0	0.010	---	---	0.104	1971
1972	---	---	0	1.19	0.204	0	0	0	0	0	---	---	0.172	1972
1973	---	---	0.055	0.005	0	0.026	0	0.005	0.185	0.180	---	---	0.052	1973
1974	---	---	0	1.91	0.838	0.096	0	0	0	0	---	---	0.326	1974
1975	---	---	0	0.795	0.222	0.038	0	0	0.038	0.016	---	---	0.137	1975
1976	---	---	0.001	1.45	0.083	0.235	0.099	0.153	0.128	0	---	---	0.262	1976
1977	---	---	0	0.273	0.112	0.012	0.022	0.070	0.021	0.018	---	---	0.085	1977
1978	---	---	0.005	0.726	0.113	0.002	0	0.039	0.005	0.005	---	---	0.110	1978
1979	---	---	0	1.38	0.841	0.039	0	0	0	0	---	---	0.282	1979
1980	---	---	0	0.175	0.001	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.130	0.139	0	0	0.001	0.001	0	0	---	---	0.034	1981
1982	---	---	0.003	0.286	0.003	0	0	0	0	0	---	---	0.037	1982
1983	---	---	0	0.804	0.130	0.018	0.217	0.002	0	0	---	---	0.145	1983
1984	---	---	0.081	0.048	0.009	0.004	0	0	0	0	---	---	0.015	1984
1985	---	---	0	0.845	0.012	0.001	0	0	0.001	0.038	---	---	0.110	1985
1986	---	---	0.250	1.31	0.207	0.045	0.041	0.002	0	0	---	---	0.229	1986
MEAN	---	---	0.035	0.808	0.139	0.033	0.020	0.010	0.014	0.010	---	---	0.107	MEAN

LOCATION - LAT 50 47 30 N DRAINAGE AREA 88.1 km²
LONG 101 17 55 W NATURAL FLOW

CONJURING CREEK NEAR RUSSELL - STATION NO 05ME005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	0.851 ON MAR 30	0B ON MAR 1 *	526	1959
1960	---	5.47 ON APR 13	0B ON MAR 1	3 470	1960
1961	---	0.0088 ON MAR 21	0B ON MAR 1	8.29	1961
1962	---	3.78 B ON APR 20	0B ON MAR 1	1 120	1962
1963	---	1.09 B ON MAR 24	0B ON MAR 1	884	1963
1964	---	1.81 B ON APR 16	0B ON MAR 1	1 010	1964
1965	---	4.19 ON APR 14	0B ON MAR 1	1 950	1965
1966	---	3.34 ON APR 3	0B ON MAR 1	3 150	1966
1967	---	2.81 B ON APR 23	0B ON MAR 1	1 740	1967
1968	---	0.9088 ON MAR 26	0B ON MAR 1	1 270	1968
1969	---	4.11 ON APR 11	0B ON MAR 1	1 830	1969
1970	---	1.40 ON APR 30	0B ON MAR 1	2 330	1970
1971	---	1.84 B ON APR 9	0B ON MAR 1	2 210	1971
1972	---	4.19 ON APR 21	0B ON MAR 1	3 840	1972
1973	---	1.00 ON OCT 5	0B ON MAR 1	1 100	1973
1974	15.9 B AT 22 18 CST ON APR 18 *	12.5 ON APR 18 *	0B ON MAR 1	8 910	1974
1975	5.78 B AT 09 11 CST ON APR 21	4.38 B ON APR 21	0B ON MAR 1	2 490	1975
1976	---	5.18 B ON APR 7	0B ON MAR 1	5 550	1976
1977	---	1.11 B ON APR 7	0B ON MAR 1	1 390	1977
1978	---	1.94 ON APR 18	0B ON MAR 1	2 330	1978
1979	8.85 B AT 13 45 CST ON APR 22	7.30 B ON APR 22	0B ON MAR 1	5 990	1979
1980	---	1.02 B ON APR 9	0B ON MAR 1	458	1980
1981	0.862 AT 05 39 CST ON MAR 31	0.860 ON MAR 31	0B ON MAR 1	714	1981
1982	1.28 AT 07 51 CST ON APR 16	0.974 ON APR 16	0B ON MAR 1	783	1982
1983	4.20 AT 20 54 CST ON APR 21	3.85 ON APR 22	0B ON MAR 1	3 080	1983
1984	1.85 B AT 06 30 CST ON MAR 28	1.17 B ON MAR 28	0B ON MAR 1	322	1984
1985	3.14 B AT 10 41 CST ON APR 10	2.52 B ON APR 11	0B ON MAR 1	2 320	1985
1986	4.39 B AT 08 45 CST ON APR 2	3.90 B ON APR 2	0B ON MAR 1	4 850	1986
				2 270	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

COOKS CREEK AT COOKS CREEK - STATION NO. 05OJ006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	20.2	1.79	0.154	0.039	0.157	0.037	0.033	---	---	2.75	1960
1961	---	---	0.671	1.90	0.065	0.019	0.007	0	0	0	---	---	0.329	1961
1962	---	---	0	2.75	1.57	1.42	1.45	0.325	0.005	0.003	---	---	0.936	1962
1963	---	---	0.784	4.22	0.784	3.49	0.899	0.050	0.004	0.023	---	---	1.24	1963
1964	---	---	0.011	4.14	2.35	0.592	0.022	0	0.058	0	---	---	0.888	1964
1965	---	---	0	5.20	1.21	1.82	0.707	0.068	0.103	0.121	---	---	1.26	1965
1966	---	---	0	15.9	5.58	1.20	8.43	0.093	0.454	0.086	---	---	3.94	1966
1967	---	---	0.039	15.8	2.31	0.087	0.017	0.016	0.010	0	---	---	2.24	1967
1968	---	---	0.386	1.24	0.546	0.199	0.295	2.80	1.28	0.764	---	---	0.937	1968
1969	---	---	0	7.94	1.46	1.37	0.258	0.074	0.068	0.130	---	---	1.39	1969
1970	---	---	0	10.0	3.87	3.23	0.103	0.017	0.956	0.056	---	---	2.26	1970
1971	---	---	0	11.8	0.656	0.080	0.032	0.008	0	0.035	---	---	1.54	1971
1972	---	---	0.008	5.15	0.473	0.116	0.001	0.004	0.053	0.076	---	---	0.845	1972
1973	---	---	2.23	0.236	0.068	1.41	0.558	0.003	0.115	0.827	---	---	0.858	1973
1974	---	---	0	23.2	15.6	1.43	0.030	0	0.016	0.131	---	---	5.00	1974
1975	---	---	0	2.69	0.225	3.18	0.334	0	0	0.001	---	---	0.789	1975
1976	---	---	0	5.04	0.078	1.12	0.080	0.014	0.003	0	---	---	0.887	1976
1977	---	---	0.012	0.475	0.081	0.105	0.206	0.083	2.24	0.414	---	---	0.448	1977
1978	---	---	0	14.3	1.29	0.268	0.032	0.030	0	0	---	---	1.96	1978
1979	---	---	0	14.2	5.84	2.46	0.016	0	0	0	---	---	2.88	1979
1980	---	---	0	4.98	0.085	0.003	0	0	0	0	---	---	0.819	1980
1981	---	---	0.588	0.157	0	0	0	0	0	0	---	---	0.092	1981
1982	---	---	0.374	3.14	0.067	0.253	0.134	0.010	0	0.151	---	---	0.509	1982
1983	---	---	0.626	8.15	0.450	0.243	0.285	0	0	0	---	---	1.20	1983
1984	---	---	0.137	0.595	0.021	2.66	0.298	0.002	0	0.080	---	---	0.487	1984
1985	---	---	1.53	1.44	0.103	0	0	1.59	0.053	0.409	---	---	0.644	1985
1986	---	---	4.40	8.62	5.76	0.135	0.482	0.448	0.056	0.086	---	---	2.49	1986
MEAN	---	---	0.436	7.28	1.97	1.00	0.536	0.215	0.205	0.118	---	---	1.45	MEAN

LOCATION - LAT 50 01 12 N DRAINAGE AREA, 512 km²
LONG 96 46 23 W NATURAL FLOW

COOKS CREEK AT COOKS CREEK - STATION NO. 05OJ006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	81.5 ON APR 13 *	0.0 ON MAR 1 *	58 100	1960
1961	---	5.38 ON APR 10	0.0 ON MAR 1	6 950	1961
1962	---	17.8 ON APR 22	0.0 ON MAR 1	19 800	1962
1963	---	32.3 ON JUN 5	0 ON SEP 16	26 100	1963
1964	---	16.2 ON APR 17	0 ON JUL 21	18 800	1964
1965	---	36.0 B ON APR 13	0.0 ON MAR 1	26 700	1965
1966	---	42.8 ON JUL 4	0.0 ON MAR 1	83 400	1966
1967	---	42.5 ON APR 21	0.0 ON MAR 1	47 500	1967
1968	---	22.9 ON AUG 25	0 ON MAR 1	19 800	1968
1969	---	32.6 B ON APR 10	0.0 ON MAR 1	29 500	1969
1970	---	33.7 ON APR 17	0.0 ON MAR 1	47 800	1970
1971	51.8 AT 03:02 CST ON APR 10	47.3 ON APR 10	0.0 ON MAR 1	32 700	1971
1972	26.3 B AT 09:43 CST ON APR 15	25.3 B ON APR 15	0 ON JUL 5	17 900	1972
1973	18.2 AT 03:22 CST ON JUN 21	12.7 ON JUN 21	0.0 ON MAR 1	13 900	1973
1974	78.2 B AT 12:19 CST ON APR 18 *	74.5 B ON APR 18	0.0 ON MAR 1	106 000	1974
1975	45.6 AT 15:44 CST ON JUN 23	35.1 ON JUN 23	0.0 ON MAR 1	16 700	1975
1976	---	28.2 B ON APR 6	0.0 ON MAR 1	19 000	1976
1977	11.0 AT 16:12 CST ON SEP 10	9.03 ON SEP 10	0.0 ON MAR 1	8 470	1977
1978	---	28.9 B ON APR 12	0.0 ON MAR 1	41 400	1978
1979	74.5 B AT 03:39 CST ON APR 20	73.6 B ON APR 20	0.0 ON MAR 1	61 000	1979
1980	25.0 B AT 07:42 CST ON APR 8	22.3 B ON APR 8	0.0 ON MAR 1	13 100	1980
1981	4.578 AT 00:30 CST ON MAR 27	2.288 ON MAR 27	0.0 ON MAR 1	1 850	1981
1982	13.6 AT 09:31 CST ON APR 14	12.3 B ON APR 16	0.0 ON MAR 1	10 800	1982
1983	28.8 B AT 11:10 CST ON APR 6	27.9 B ON APR 6	0.0 ON MAR 1	25 400	1983
1984	17.3 AT 03:14 CST ON JUN 18	14.8 ON JUN 18	0.0 ON MAR 5	9 850	1984
1985	24.3 AT 15:30 CST ON AUG 24	17.1 ON AUG 25	0.0 ON MAR 1	13 600	1985
1986	---	48.0 B ON MAR 31	0.0 ON MAR 1	52 800	1986
				30 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	5.08	12.6	1.34	0.575	0.316	0.021	0	0	---	---	2.47	1957
1958	---	---	0.073	0.132	0.031	0.004	2.32	0.047	0	0	---	---	0.329	1958
1959	---	---	0.006	9.88	4.61	4.85	0.325	2.40	2.70	14.8	---	---	4.94	1959
1960	---	---	0	29.3	2.03	0.544	0.007	0.175	0.008	0	---	---	3.84	1960
1961	---	---	1.04	2.91	0.322	0.123	0	0	0	0	---	---	0.543	1961
1962	---	---	0	6.12	1.82	1.84	1.66	0.738	0.017	0	---	---	1.50	1962
1963	---	---	0.837	5.36	0.890	3.56	0.810	0.042	0	0	---	---	1.39	1963
1964	---	---	0	6.26	2.81	0.934	0.053	0	0	0	---	---	1.25	1964
1965	---	---	0	7.70	1.27	1.26	0.585	0.082	0.051	0.087	---	---	1.36	1965
1966	---	---	0	25.6	7.33	0.988	6.14	0.032	0.525	0.030	---	---	5.04	1966
1967	---	---	0.027	22.1	2.30	0.111	0.020	0	0	0	---	---	3.02	1967
1968	---	---	0.805	2.16	0.572	0.208	0.390	3.01	1.48	0.840	---	---	1.16	1968
1969	---	---	0	10.3	1.58	1.92	0.407	0.029	0.050	0.273	---	---	1.79	1969
1970	---	---	0	12.6	4.82	4.34	0.387	0	0.441	0.152	---	---	2.81	1970
1971	---	---	0	19.5	0.745	0.149	0.041	0	0	0	---	---	2.50	1971
1972	---	---	0	9.80	0.439	0.008	0	0.070	0.003	0.013	---	---	1.27	1972
1973	---	---	3.02	0.242	0.007	2.75	0.386	0	0.186	0.926	---	---	0.938	1973
1974	---	---	0	31.3	20.9	1.77	0.026	0.001	0.001	0.001	---	---	6.70	1974
1975	---	---	0	5.05	0.184	1.82	0.137	0.006	0.005	0.003	---	---	0.895	1975
1976	---	---	0	9.27	0.072	2.75	0.093	0	0	0	---	---	1.49	1976
1977	---	---	0.001	0.548	0.014	0	0.127	0	2.25	0.493	---	---	0.423	1977
1978	---	---	0.017	16.8	1.72	0.402	0.268	0.005	0.002	0.001	---	---	2.36	1978
1979	---	---	0	18.4	4.79	3.01	0.005	0	0.032	0	---	---	3.23	1979
1980	---	---	0	8.00	0	0.004	0	0	0	0	---	---	0.980	1980
1981	---	---	0.428	0.046	0.015	0	0.002	0	0	0.016	---	---	0.064	1981
1982	---	---	0.684	5.80	0.037	0.333	0.209	0	0	0.243	---	---	1.02	1982
1983	---	---	0.784	11.3	0.313	0.119	0.247	0	0	0	---	---	1.57	1983
1984	---	---	0.163	0.992	0	2.96	0.249	0	0	0.003	---	---	0.536	1984
1985	---	---	8.84	2.36	0.216	0	0	2.18	0.130	0.801	---	---	1.20	1985
1986	---	---	5.43	11.5	6.85	0.124	0.353	0.671	0	0.003	---	---	3.08	1986
MEAN	---	---	0.747	10.2	2.26	1.25	0.512	0.317	0.263	0.810	---	---	1.99	MEAN

LOCATION - LAT 50 08 25 N DRAINAGE AREA, 898 km²
LONG 96 49 48 W NATURAL FLOW

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	63.7 ON APR 25	0B ON MAR 1 *	52 200	1957
1958	---	32.6 E ON JUL 6	0B ON MAR 1	5 860	1958
1959	---	47.9 ON OCT 11	0B ON MAR 1	105 000	1959
1960	227 AT 09 30 ON APR 14 *	201 ON APR 14 *	0B ON MAR 1	83 300	1960
1961	---	9.548 ON MAR 27	0B ON MAR 1	11 500	1961
1962	---	46.7 ON APR 21	0B ON MAR 1	31 800	1962
1963	---	36.8 ON APR 8	0B ON MAR 1	29 500	1963
1964	---	26.2 ON APR 17	0B ON MAR 1	26 400	1964
1965	---	35.4 B ON APR 13	0B ON MAR 1	28 800	1965
1966	---	59.2 ON APR 14	0B ON MAR 1	106 000	1966
1967	---	52.1 ON APR 15	0B ON MAR 1	53 900	1967
1968	---	19.2 ON AUG 26	0B ON MAR 1	24 500	1968
1969	---	55.5 ON APR 10	0B ON MAR 1	37 900	1969
1970	---	43.0 ON APR 17	0B ON MAR 1	59 500	1970
1971	---	62.9 B ON APR 11	0B ON MAR 1	53 000	1971
1972	---	45.3 B ON APR 15	0 ON MAR 1	26 800	1972
1973	27.8 AT 19:38 CST ON JUN 21	22.7 ON JUN 21	0B ON MAR 1	19 800	1973
1974	112 B AT 17:16 CST ON APR 18	106 B ON APR 18	0B ON MAR 1	142 000	1974
1975	32.8 AT 05:00 CST ON JUN 24	28.1 ON JUN 24	0B ON MAR 1	18 000	1975
1976	---	45.0 B ON APR 8	0B ON MAR 1	31 800	1976
1977	9.20 AT 10:46 CST ON SEP 11	8.54 ON SEP 11	0B ON MAR 1	8 850	1977
1978	39.9 AT 22:30 CST ON APR 11	37.1 ON APR 12	0B ON MAR 1	50 000	1978
1979	105 A AT 20:00 CST ON APR 20	99.4 ON APR 21	0B ON MAR 1	68 300	1979
1980	45.6 AT 22:00 CST ON APR 8	43.6 ON APR 8	0B ON MAR 1	20 700	1980
1981	4.84 AT 10:03 CST ON MAR 29	1.29 ON MAR 28	0B ON MAR 1	1 380	1981
1982	25.2 AT 01:28 CST ON APR 15	23.8 ON APR 15	0B ON MAR 1	21 500	1982
1983	40.0 B AT 19:33 CST ON APR 6	36.6 B ON APR 7	0B ON MAR 1	33 300	1983
1984	15.9 AT 18:51 CST ON JUN 18	12.1 ON JUN 19	0B ON MAR 1	11 400	1984
1985	22.1 B AT 01:11 CST ON MAR 26	20.0 B ON MAR 26	0B ON MAR 1	25 300	1985
1986	62.4 B AT 01:31 CST ON MAR 31	60.4 B ON MAR 31	0B ON MAR 1	65 100	1986
				42 200	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

COOKS CREEK NEAR GLASS - STATION NO. 05OJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	5.17	1.25	0.469	0.007	0.038	0.004	0.004	---	---	0.977	1980
1981	---	---	0.154	0.320	0.010	0.055	0	0	0.001	0.003	---	---	0.067	1981
1982	---	---	0	0.309	0.721	0.646	0.710	0.083	0.005	0.002	---	---	0.309	1982
1983	---	---	0.220	0.652	0.152	1.52	0.728	0.085	0.002	0.004	---	---	0.414	1983
1984	---	---	0	0.977	1.76	0.422	0.008	0	0.001	0.001	---	---	0.395	1984
1985	---	---	0	1.58	0.735	0.744	0.809	0.086	0.075	0.103	---	---	0.486	1985
1986	---	---	0	4.82	2.67	0.940	4.10	0.183	0.298	0.103	---	---	1.64	1986
1987	---	---	0.005	5.39	1.85	0.100	0.001	0	0	0	---	---	1.03	1987
1988	---	---	0.241	0.512	0.211	0.148	0.090	0.750	0.556	0.215	---	---	0.343	1988
1989	---	---	0	2.92	1.03	0.536	0.139	0.043	0.089	0.101	---	---	0.800	1989
1970	---	---	0	3.14	2.09	1.38	0.110	0.003	0.025	0.030	---	---	0.839	1970
1971	---	---	0	2.17	0.237	0.039	0.015	0.004	0.007	0.040	---	---	0.308	1971
1972	---	---	0	2.30	0.292	0.021	0.002	0.006	0.023	0.005	---	---	0.326	1972
1973	---	---	0.654	0.083	0.033	0.197	0.136	0.003	0.094	0.334	---	---	0.193	1973
1974	---	---	0	5.89	7.36	1.16	0.076	0.055	0.043	0.021	---	---	1.84	1974
1975	---	---	0	0.615	0.051	0.963	0.542	0.001	0.001	0.003	---	---	0.288	1975
1976	---	---	0	1.48	0.059	0.215	0.015	0.001	0	0.001	---	---	0.217	1976
1977	---	---	0	0.163	0.016	0.047	0.086	0.028	0.496	0.235	---	---	0.132	1977
1978	---	---	0.020	5.33	0.817	0.200	0.035	0.002	0.003	0.001	---	---	0.788	1978
1979	---	---	0	3.61	1.02	0.997	0.034	0.008	0.006	0.006	---	---	0.700	1979
1980	---	---	0	1.04	0.013	0.001	0.001	0.001	0.004	0.004	---	---	0.130	1980
1981	---	---	0.019	0.017	0.022	0.010	0.008	0	0.003	0.008	---	---	0.011	1981
1982	---	---	0.146	1.18	0.127	0.354	0.148	0.016	0.001	0.108	---	---	0.259	1982
1983	---	---	0.292	2.08	0.289	0.153	0.121	0	0	0	---	---	0.362	1983
1984	---	---	0.022	0.135	0.028	1.63	0.293	0.002	0	0.003	---	---	0.280	1984
1985	---	---	0.646	0.300	0.052	0.002	0.007	1.09	0.031	0.158	---	---	0.287	1985
1986	---	---	0.931	2.17	2.37	0.198	0.383	0.237	0.001	0.010	---	---	0.788	1986
MEAN	---	---	0.124	2.12	0.936	0.487	0.311	0.099	0.087	0.056	---	---	0.521	MEAN

LOCATION - LAT 49 53 10 N DRAINAGE AREA, 183 km²
LONG 96 44 26 W NATURAL FLOW

COOKS CREEK NEAR GLASS - STATION NO. 05OJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	22.0 ON APR 12	0B ON MAR 1 *	20 700	1980
1981	---	1.14 B ON MAR 26	0B ON MAR 1	1 420	1981
1982	---	5.86 ON JUL 20	0B ON MAR 1	6 540	1982
1983	---	13.5 ON JUN 4	0 ON MAR 1	8 770	1983
1984	---	8.17 ON MAY 6	0B ON MAR 1	8 380	1984
1985	---	7.87 B ON APR 14	0B ON MAR 1	10 300	1985
1986	---	16.5 ON JUL 3	0B ON MAR 1	34 600	1986
1987	---	12.2 B ON APR 11	0B ON MAR 1	21 800	1987
1988	---	5.24 ON AUG 24	0B ON MAR 1	7 270	1988
1989	---	14.3 ON APR 9	0 ON MAR 1	12 700	1989
1970	16.1 AT 20 21 CST ON APR 16	13.8 ON APR 16	0A ON MAR 1	17 800	1970
1971	---	10.2 ON APR 10	0B ON MAR 1	5 530	1971
1972	---	8.07 B ON APR 15	0B ON MAR 1	6 900	1972
1973	5.30 AT 20 57 CST ON JUN 20	2.31 ON OCT 13	0B ON MAR 1	4 080	1973
1974	28.9 AT 15 18 CST ON MAY 22 *	28.1 ON MAY 22 *	0B ON MAR 1	41 100	1974
1975	14.5 AT 01 23 CST ON JUN 23	10.6 ON JUN 23	0B ON MAR 1	5 880	1975
1976	---	8.10 ON APR 6	0B ON MAR 1	4 590	1976
1977	4.16 AT 20 51 CST ON SEP 9	2.30 ON SEP 10	0B ON MAR 1	2 810	1977
1978	---	8.86 ON APR 11	0B ON MAR 1	16 700	1978
1979	---	18.7 ON APR 20	0B ON MAR 1	14 800	1979
1980	---	6.46 B ON APR 8	0B ON MAR 1	2 750	1980
1981	0.200 AT 09 00 CST ON MAY 25	0.178 ON MAY 25	0B ON MAR 1	230	1981
1982	5.30 AT 18 57 CST ON APR 14	4.03 B ON APR 13	0B ON MAR 1	5 480	1982
1983	---	5.33 B ON APR 1	0B ON MAR 1	7 670	1983
1984	10.2 AT 10 55 CST ON JUN 17	8.75 ON JUN 17	0B ON MAR 1	5 510	1984
1985	18.7 AT 12 34 CST ON AUG 24	17.0 ON AUG 24	0B ON MAR 1	6 080	1985
1986	10.7 AT 06 43 CST ON MAY 1	9.84 ON MAY 1	0B ON MAR 1	16 700	1986
				11 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05080005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.288	0.026	0.028	0.034	0	0.018	0.001	0.001	---	---	0.050	1959
1960	---	---	0	2.45	0.008	0.003	0	0	0	0	---	---	0.302	1960
1961	---	---	0.612	0.439	0.010	0.001	0	0	0	0	---	---	0.133	1961
1962	---	---	0	1.59	0.019	0.013	0.001	0.024	0	0	---	---	0.202	1962
1964	---	---	0.037	0.200	0.009	0.005	0	0	0	0	---	---	0.031	1964
1965	---	---	0	0.186	0.158	0	0	0	0	0	---	---	0.043	1965
1966	---	---	1.05	0.226	0.038	0	0	0	0	0	---	---	0.186	1966
1967	---	---	0.040	0.418	0.032	0	0	0	0	0	---	---	0.080	1967
1968	---	---	0.158	0.045	0	0	0.052	0.743	0.126	0	---	---	0.142	1968
1969	---	---	0	2.87	0.022	0.021	0.033	0	0	0	---	---	0.336	1969
1970	---	---	0	2.05	0.127	0.423	0.003	0	0.011	0	---	---	0.320	1970
1971	---	---	0	1.73	0.147	0	0	0	0	0	---	---	0.230	1971
1972	---	---	1.39	1.27	0.013	0	0	0	0	0	---	---	0.333	1972
1973	---	---	0.006	0.001	0	0	0	0	0	0	---	---	0.001	1973
1974	---	---	0	3.45	1.36	0.130	0.002	0	0	0	---	---	0.611	1974
1975	---	---	0	0.583	0.087	0.010	0.001	0	0	0	---	---	0.084	1975
1976	---	---	0	2.61	0.047	0.001	0	0	0	0	---	---	0.325	1976
1977	---	---	0.003	0.005	0.024	0	0	0	0.001	0	---	---	0.004	1977
1978	---	---	0.038	1.17	0.147	0.021	0.022	0	0	0	---	---	0.172	1978
1979	---	---	0	2.30	0.606	0.074	0.001	0	0	0	---	---	0.387	1979
1980	---	---	0.003	0.167	0	0	0	0	0	0	---	---	0.021	1980
1981	---	0.018	0.237	0.005	0.112	0.010	0.001	0.002	0.001	0.001	---	---	0.047	1981
1982	---	---	0.274	0.837	0.013	0.700	0.037	0.001	0	0.004	---	---	0.230	1982
1983	---	---	0.207	0.327	0.015	0.002	0.001	0	0	0	---	---	0.068	1983
1984	---	---	0.082	0.005	0.024	0	0	0	0	0	---	---	0.015	1984
1985	---	---	1.37	0.048	0	0.001	0.001	0	0	0	---	---	0.179	1985
1986	---	---	0.585	0.176	0.082	0.038	0.006	0	0	0	---	---	0.111	1986
MEAN	---	0.018	0.237	0.925	0.116	0.055	0.006	0.029	0.005	0	---	---	0.170	MEAN

LOCATION - LAT 49 07 28 N LONG 98 56 28 W DRAINAGE AREA, 154 km² NATURAL FLOW

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05080005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.72 B ON MAR 28	0B ON MAR 1 *	1 050	1959
1960	---	12.4 ON APR 11	0B ON MAR 1	6 380	1960
1961	---	2.32 ON MAR 27	0 ON MAR 1	2 810	1961
1962	26.7 AT 17 30 CST ON APR 17 *	18.2 ON APR 17	0B ON MAR 1	4 270	1962
1964	---	0.840R ON APR 5	0B ON MAR 1	853	1964
1965	---	3.43 ON MAY 5	0B ON MAR 1	805	1965
1966	---	4.70 ON MAR 30	0B ON MAR 1	3 510	1966
1967	---	1.06 ON APR 24	0B ON MAR 1	1 270	1967
1968	---	8.81 R ON AUG 24	0B ON MAR 1	3 000	1968
1969	---	19.7 ON APR 11	0B ON MAR 1	7 120	1969
1970	---	8.35 ON APR 25	0B ON MAR 1	6 780	1970
1971	---	6.46 B ON APR 12	0B ON MAR 1	4 870	1971
1972	---	3.77 B ON MAR 21	0B ON MAR 1	7 050	1972
1973	---	0.0148 ON MAR 16	0B ON MAR 1	18.7	1973
1974	---	22.0 B ON APR 17 *	0B ON MAR 1	12 900	1974
1975	---	4.13 B ON APR 13	0B ON MAR 1	1 770	1975
1976	---	17.2 B ON APR 8	0B ON MAR 1	6 890	1976
1977	0.433 AT 11 29 CST ON MAY 20	0.388 ON MAY 20	0B ON MAR 1	80.3	1977
1978	8.49 AT 02 29 CST ON APR 8	7.22 ON APR 8	0B ON MAR 1	3 630	1978
1979	---	15.2 B ON APR 20	0B ON MAR 1	7 770	1979
1980	1.56 B AT 15 18 CST ON APR 4	1.23 B ON APR 5	0B ON MAR 1	441	1980
1981	6.77 AT 03 52 CST ON MAY 23	1.77 ON MAY 23	0 ON MAY 1	880	1981
1982	---	4.83 B ON MAR 31	0B ON MAR 1	4 880	1982
1983	1.91 B AT 08 13 CST ON APR 2	1.28 B ON APR 2	0B ON MAR 1	1 450	1983
1984	1.08 B AT 18 53 CST ON MAR 24	0.7398 ON MAR 25	0B ON MAR 1	325	1984
1985	11.5 B AT 17 50 CST ON MAR 20	10.8 B ON MAR 20	0B ON MAR 1	3 800	1985
1986	10.5 B AT 16 18 CST ON MAR 22	4.04 B ON MAR 23	0B ON MAR 1	2 350	1986
				3 590	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1985

CYPRESS CREEK NEAR CLEARWATER - STATION NO 05DB010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.283	0.246	0.008	0.010	0.006	0.007	0.065	0	---	---	0.078	1959
1960	---	---	0	5.96	0.088	0.010	0	0	0	0	---	---	0.743	1960
1961	---	---	0.150	0.283	0.001	0	0	0	0	0	---	---	0.051	1961
1962	---	---	0	2.87	0.018	0.087	0.353	0.251	0	0	---	---	0.438	1962
1963	---	---	0.240	0.148	0.015	2.18	0.501	0.718	0	0	---	---	0.471	1963
1964	---	---	0	1.85	0.012	0.080	0.084	0.012	0.009	0.031	---	---	0.255	1964
1965	---	---	0	0.940	0.715	0.180	1.14	0.153	0.026	0	---	---	0.385	1965
1966	---	---	1.18	0.984	0.485	0.030	0	0	0	0	---	---	0.321	1966
1967	---	---	0.052	2.69	0.328	0.009	0	0	0	0	---	---	0.378	1967
1968	---	---	0.214	0.091	0.008	0.002	0.015	0.537	0.513	0	---	---	0.172	1968
1969	---	---	0	4.07	0.013	0.115	0.322	0	0	0	---	---	0.555	1969
1970	---	---	0	3.53	1.80	3.71	0.631	0.023	0	0	---	---	1.21	1970
1971	---	---	0	10.9	0.275	0.247	0	0	0	0	---	---	1.40	1971
1972	---	---	3.42	3.03	0.070	0.013	0.008	0.007	0	0	---	---	0.816	1972
1973	---	---	0.048	0.020	0.008	0.001	0	0	0	0	---	---	0.008	1973
1974	---	---	0	10.5	2.40	0.188	0.008	0.002	0.001	0.002	---	---	1.62	1974
1975	---	---	0	2.29	0.508	0.204	0.022	0	0.001	0.001	---	---	0.373	1975
1976	---	---	0	7.74	0.038	0.002	0	0	0	0	---	---	0.952	1976
1977	---	---	0.001	0.005	0.106	0.006	0	0	0	0	---	---	0.015	1977
1978	---	---	0.003	2.28	0.308	0.046	0.010	0	0	0	---	---	0.326	1978
1979	---	---	0	7.05	1.38	0.041	0.002	0	0	0	---	---	1.04	1979
1980	---	---	0.011	0.242	0.002	0.002	0.001	0	0	0.001	---	---	0.032	1980
1981	---	0.356	0.556	0.035	0.007	0.703	0	0.055	0.004	0.002	---	---	0.083	1981
1982	---	---	0.154	3.85	0.094	7.58	0.037	0.001	0	0.007	---	---	1.44	1982
1983	---	---	0.482	1.06	0.034	0.006	0	0	0	0	---	---	0.186	1983
1984	---	---	0.177	0.091	0.081	0.009	0	0	0	0	---	---	0.045	1984
1985	---	---	1.51	0.170	0	0.526	0.251	0.005	0	0	---	---	0.308	1985
1986	---	---	1.48	0.886	0.169	1.28	0.099	0.009	0.005	0.005	---	---	0.488	1986
MEAN	---	0.356	0.356	2.63	0.324	0.591	0.125	0.084	0.022	0.002	---	---	0.508	MEAN

LOCATION - LAT 49 05 21 N DRAINAGE AREA 388 km²
LONG 98 58 54 W NATURAL FLOW

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1976. THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OCCURRED IN FEB

CYPRESS CREEK NEAR CLEARWATER - STATION NO 05DB010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	2.86 B ON MAR 31	0B ON MAR 1 *	1 840	1959
1960	---	25.5 E ON APR 8	0B ON MAR 1	15 700	1960
1961	---	1.12 B ON MAR 27	0B ON MAR 1	1 080	1961
1962	---	10.9 ON APR 17	0B ON MAR 1	9 280	1962
1963	---	12.4 ON JUN 10	0B ON MAR 1	9 970	1963
1964	---	9.32 B ON APR 10	0B ON MAR 1	5 350	1964
1965	---	10.4 ON MAY 5	0B ON MAR 1	8 370	1965
1966	---	6.12 B ON MAR 31	0B ON MAR 1	7 000	1966
1967	---	12.4 ON APR 21	0B ON MAR 1	8 010	1967
1968	---	6.09 ON AUG 24	0B ON MAR 1	3 540	1968
1969	---	16.2 ON APR 15	0B ON MAR 1	11 800	1969
1970	---	16.3 ON JUN 12	0B ON MAR 1	25 600	1970
1971	---	72.5 B ON APR 11 *	0B ON MAR 1	29 700	1971
1972	---	7.95 B ON MAR 21	0B ON MAR 1	17 300	1972
1973	---	0.161 ON MAR 23	0B ON MAR 1	192	1973
1974	---	86.8 ON APR 18	0B ON MAR 1	34 200	1974
1975	---	11.4 ON APR 15	0B ON MAR 1	7 880	1975
1976	---	53.0 B ON APR 5	0B ON MAR 1	20 200	1976
1977	---	0.668 ON MAY 25	0B ON MAR 1	314	1977
1978	---	11.9 B ON APR 7	0B ON MAR 1	6 900	1978
1979	---	36.8 B ON APR 22	0B ON MAR 1	22 100	1979
1980	---	0.9738 ON APR 7	0B ON MAR 1	572	1980
1981	---	2.37 B ON MAR 14	0 ON JUN 29	1 770	1981
1982	---	58.4 ON JUN 6	0B ON MAR 1	30 500	1982
1983	4.198 AT 11 45 CST ON APR 3	3.13 B ON APR 2	0B ON MAR 1	4 180	1983
1984	1.03 AT 08 30 CST ON MAR 30	0.8578 ON MAR 26	0B ON MAR 1	853	1984
1985	11.7 AT 20 30 CST ON MAR 20 *	9.82 A ON MAR 20	0B ON MAR 1	6 520	1985
1986	10.1 B AT 03 15 CST ON MAR 25	8.37 B ON MAR 25	0B ON MAR 1	10 300	1986
				10 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CYPRESS CREEK NEAR SARLES - STATION NO 05OB031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	0	0	0	0	0	0	0	---	1961
1962	0	0	0	1.21	0.031	0.043	0.428	0.003	0	0	0	0	0.143	1962
1963	0	0	0.030	0.023	0.001	1.33	0.725	0.487	0.001	0	0	0	0.215	1963
1964	0	0	0	0.873	0.008	0.045	0.002	0	0	0	0	0	0.060	1964
1965	0	0	0	0.540	0.083	0.025	0.861	0.108	0.016	0.008	0	0	0.136	1965
1966	0	0	0.853	0.345	0.240	0.001	0	0	0	0	0	0	0.121	1966
1967	0	0	0.387	1.28	0.222	0	0	0	0	0	0	0	0.155	1967
1968	0	0	0.103	0.014	0	0	0	0	0	0	0	0	0.057	1968
1969	0	0	0	4.33	0.018	0.002	0.005	0.225	0.337	0.011	0.001	0	0.358	1969
1970	0	0	0	2.38	0.336	3.32	0.016	0	0	0	0	0	0.499	1970
1971	0	0	0	3.39	0.013	0	0.025	0	0	0	0	0	0.282	1971
1972	0	0	1.17	0.459	0.011	0	0	0	0	0	0	0	0.138	1972
1973	0	0	0.072	0.001	0	0	0	0	0	0	0	0	0.005	1973
1974	0	0	0	4.83	1.21	0.025	0	0	0	0	0	0	0.502	1974
1975	0	0	0	0.887	0.113	0.298	0.045	0	0	0	0	0	0.117	1975
1976	0	0	0	2.49	0.008	0	0	0.001	0	0	0	0	0.205	1976
1977	0	0	0	0.002	0.239	0.005	0	0	0	0	0	0	0.021	1977
1978	0	0	0	1.30	0.134	0.010	0.010	0	0	0	0	0	0.120	1978
1979	0	0	0	3.01	0.337	0.012	0	0	0	0	0	0	0.277	1979
1980	0	0	0	0.241	0.001	0.005	0.004	0.001	0	0	0	0	0.021	1980
1981	0	0.133	0.133	0.018	0.014	0	0	0	0	0	0	0	0.024	1981
1982	0	0	0.141	1.19	0.020	1.53	0.003	0.001	0	0.084	0.005	0.010	0.244	1982
1983	0	0	0.356	1.11	0.019	0.001	0.009	0	0	0	0	0	0.126	1983
1984	0	0	0.112	0.032	0.022	0.001	0	0	0	0	0	0	0.014	1984
1985	0	0	1.39	0.033	0	0.527	0.220	0.002	0	0.001	0	0	0.183	1985
1986	0	0	0.788	0.356	0.080	0.445	0.058	0	0	0	0	0	0.144	1986
MEAN	0	0.005	0.221	1.21	0.126	0.293	0.093	0.031	0.014	0.003	0	0	0.167	MEAN

LOCATION - LAT 48 56 35 N
LONG 98 57 05 W
DRAINAGE AREA, 148 km²
NATURAL FLOW
INTERNATIONAL GAUGING STATION

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1978

CYPRESS CREEK NEAR SARLES - STATION NO 05OB031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---	---	0 ON MAY 19 *	---	1961
1962	11.1 AT 04:30 CST ON JUL 8	7.93 ON JUL 8	0 ON JAN 1	4 500	1962
1963	16.2 AT 21:00 CST ON JUN 2	11.4 ON JUN 4	0 ON JAN 1	6 770	1963
1964	5.35 B ON APR 10	2.83 B ON APR 10	0 ON JAN 1	1 880	1964
1965	10.2 AT 19:00 CST ON JUL 22	6.77 ON JUL 23	0 ON JAN 1	4 290	1965
1966	19.0 B AT 16:30 CST ON MAR 17	7.08 B ON MAR 17	0B ON JAN 1	3 820	1966
1967	8.78 B AT 17:40 CST ON APR 21	7.35 B ON APR 21	0B ON JAN 1	4 890	1967
1968	2.78 AT 01:00 CST ON AUG 25	2.18 ON AUG 25	0 ON JAN 1	1 820	1968
1969	32.0 B AT 07:00 CST ON APR 12	31.1 B ON APR 12	0B ON JAN 1	11 300	1969
1970	49.3 AT 08:30 CST ON JUN 11	44.2 ON JUN 11 *	0 ON JAN 1	15 800	1970
1971	54.4 AT 00:00 CST ON APR 11	33.1 ON APR 11	0 ON JAN 1	8 880	1971
1972	5.94 B AT 13:00 CST ON MAR 19	5.26 B ON MAR 19	0B ON JAN 1	4 350	1972
1973	---	0.680 ON MAR 13	0 ON JAN 1	196	1973
1974	35.7 AT 22:00 CST ON APR 17	29.2 ON APR 18	0 ON JAN 1	15 800	1974
1975	11.0 AT 12:00 CST ON APR 13	5.86 ON APR 12	0 ON JAN 1	3 710	1975
1976	18.4 B AT 00:30 CST ON APR 4	17.6 B ON APR 5	0B ON JAN 1	5 480	1976
1977	1.42 AT 19:00 CST ON MAY 20	1.27 ON MAY 21	0B ON JAN 1	857	1977
1978	9.03 AT 08:00 CST ON APR 7	8.72 ON APR 7	0B ON JAN 1	3 770	1978
1979	56.6 B ON APR 21 *	22.7 B ON APR 21	0B ON JAN 1	8 730	1979
1980	2.41 AT 11:00 CST ON APR 5	1.70 ON APR 5	0B ON JAN 1	855	1980
1981	0.878B AT 04:30 CST ON FEB 24	0.880B ON FEB 27	0B ON JAN 1	786	1981
1982	---	21.7 ON JUN 6	0B ON JAN 1	7 700	1982
1983	4.19 B AT 20:45 CST ON APR 2	3.40 B ON APR 3	0B ON JAN 1	3 900	1983
1984	1.08 AT 07:30 CST ON MAR 28	0.765 ON MAR 28	0 ON JAN 1	443	1984
1985	13.3 B AT 08:00 CST ON MAR 13	8.34 B ON MAR 13	0 ON JAN 1	5 780	1985
1986	---	3.80 B ON MAR 24	0 ON JAN 1	4 550	1986
				5 280	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CYPRESS RIVER AT CYPRESS RIVER - STATION NO 05MH002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	0.885	0.187	0.340	0.079	0.426	0.130	0.036	---	---	---	1957
1958	---	---	0.514	0.801	0.208	0.038	0.077	0.018	0.013	0.018	---	---	0.210	1958
1959	---	---	0.540	3.34	0.510	0.138	0.036	0.032	0.036	0.524	---	---	0.638	1959
1960	---	---	0.073	5.98	0.584	0.132	0.086	0	0	0	---	---	0.959	1960
MEAN	---	---	0.378	3.03	0.367	0.162	0.085	0.119	0.045	0.145	---	---	0.802	MEAN

LOCATION - LAT 48 33 00 N
LONG 99 04 30 W
DRAINAGE AREA, 402 km²
NATURAL FLOW

CYPRESS RIVER AT CYPRESS RIVER - STATION NO 05MH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	3.088 ON MAR 30	08 ON MAR 1 *	4 450	1958
1959	---	14 4 B ON APR 5	08 ON MAR 1	13 500	1959
1960	---	17 7 ON APR 17 *	08 ON MAR 1	20 300	1960
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 800	MEAN

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.02	0.158	0.071	0.042	0.013	0.316	0.124	---	---	0.583	1965
1966	---	---	0.837	4.27	1.42	0.079	0.521	0.002	0	0	---	---	0.896	1966
1967	---	---	0.006	4.94	0.714	0.027	0.027	0	0	0	---	---	0.702	1967
1968	---	---	0.848	0.588	0.284	0.057	0.114	1.45	1.04	0.099	---	---	0.561	1968
1969	---	---	0	10.1	0.861	0.072	2.26	0.251	0.012	0.041	---	---	1.88	1969
1970	---	---	0	9.73	5.25	0.284	0.033	0	0	0	---	---	1.90	1970
1971	---	---	0	4.90	0.333	0.223	0.487	0.020	0.001	0.053	---	---	0.740	1971
1972	---	---	1.84	2.91	0.422	0.015	0	0.014	0	0	---	---	0.846	1972
1973	---	---	0.186	0.384	0.092	0.012	0.912	0.037	0.028	0.035	---	---	0.209	1973
1974	---	---	0	12.2	2.87	0.320	0.008	0	0	0	---	---	1.81	1974
1975	---	---	0	1.24	0.855	0.086	0.115	0	0	0.008	---	---	0.286	1975
1976	---	---	0.004	5.87	0.098	0.006	0	0	0	0	---	---	0.732	1976
1977	---	---	0	0.022	0.628	0.066	0	0	0.207	0.081	---	---	0.126	1977
1978	---	---	0.011	4.10	0.425	0.110	0.645	0.030	0	0	---	---	0.655	1978
1979	---	---	0	10.8	3.00	0.233	0.044	0	0	0	---	---	1.74	1979
1980	---	---	0	1.37	0.038	0	0	0.010	0.017	0.029	---	---	0.179	1980
1981	---	---	0.110	0.048	0.038	0.102	0.132	0.056	0.187	0.079	---	---	0.094	1981
1982	---	---	0.086	0.882	0.129	0.059	0.008	0	0	0.019	---	---	0.144	1982
1983	---	---	0.192	3.12	0.117	0.121	0.039	0	0	0	---	---	0.441	1983
1984	---	---	0.239	0.205	0.228	0.015	0	0	0	0.002	---	---	0.086	1984
1985	---	---	2.63	1.62	0.078	0.005	0.001	0.226	0.116	0.109	---	---	0.597	1985
1986	---	---	3.02	2.58	2.05	0.148	0.122	0.083	0.005	0.034	---	---	1.01	1986
MEAN	---	---	0.458	3.90	0.918	0.096	0.250	0.100	0.088	0.032	---	---	0.724	MEAN

LOCATION - LAT 49 26 46 N LONG 98 54 25 W
DRAINAGE AREA, 255 km^2
NATURAL FLOW

CYPRESS RIVER NEAR BRUXELLES - STATION NO 05MH008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	25.7 ON APR 13	0 B ON MAR 1 *	12 300	1965
1966	---	35.7 ON APR 1	0 B ON MAR 1	19 000	1966
1967	---	16.0 ON APR 21	0 B ON MAR 1	14 900	1967
1968	---	10.8 ON AUG 27	0 B ON MAR 1	11 900	1968
1969	---	72.5 ON APR 12	0 B ON MAR 1	35 600	1969
1970	---	43.0 ON APR 26	0 B ON MAR 1	40 100	1970
1971	---	28.2 B ON APR 10	0 B ON MAR 1	15 700	1971
1972	---	8.95 B ON MAR 20	0 B ON MAR 1	13 700	1972
1973	---	11.1 ON JUL 5	0 B ON MAR 1	4 420	1973
1974	---	73.9 ON APR 19 *	0 B ON MAR 1	40 500	1974
1975	4.90 AT 18 09 CST ON MAY 25	3.96 ON APR 16	0 B ON MAR 1	6 050	1975
1976	39.6 B AT 12 23 CST ON APR 6 *	29.7 B ON APR 7	0 ON JUN 2	15 500	1976
1977	4.45 AT 04 27 CST ON MAY 21	3.20 ON MAY 21	0 B ON MAR 1	2 860	1977
1978	---	17.8 B ON APR 8	0 B ON MAR 1	13 900	1978
1979	---	64.2 B ON APR 21	0 B ON MAR 1	36 800	1979
1980	9.72 AT 20 11 CST ON APR 7	7.65 ON APR 8	0 B ON MAR 1	3 800	1980
1981	1.05 AT 23 12 CST ON SEP 7	0.938 ON SEP 7	0.001 ON SEP 3	1 980	1981
1982	2.888 AT 20 00 CST ON APR 15	2.25 B ON APR 15	0 B ON MAR 1	3 040	1982
1983	9.418 AT 13 00 CST ON APR 6	7.81 B ON APR 9	0 B ON MAR 1	9 350	1983
1984	---	2.00 B ON MAR 24	0 B ON MAR 1	1 820	1984
1985	14.2 AT 12 56 CST ON MAR 26	11.6 B ON MAR 26	0 B ON MAR 1	12 600	1985
1986	21.7 B AT 19 41 CST ON MAR 29	19.7 B ON MAR 29	0 ON SEP 6	21 300	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 300	MEAN

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.84	2.86	0.708	0.030	0	0	0	0	---	---	0.802	1961
1962	---	---	0	5.94	0.846	1.22	0.116	3.01	0.585	0.036	---	---	1.43	1962
1963	---	---	1.41	1.31	0.217	0.804	0.053	0.022	0.001	0.026	---	---	0.454	1963
1964	---	---	0	2.36	0.499	0.199	0.051	0.008	0.006	0.015	---	---	0.387	1964
1975	---	---	0.001	2.18	1.53	0.242	0.133	0.010	0.023	0.019	---	---	0.513	1975
1976	---	---	0.007	11.8	0.437	0.123	0.026	0.012	0	0	---	---	1.50	1976
1977	---	---	0.028	0.117	0.861	0.128	0.115	0.076	0.886	0.188	---	---	0.296	1977
1978	---	---	0.255	5.86	0.548	0.205	1.18	0.107	0.012	0.013	---	---	1.01	1978
1979	---	---	0	13.5	4.89	0.557	0.104	0.008	0.009	0.015	---	---	2.35	1979
1980	---	---	0.002	1.59	0.106	0.006	0.004	0.059	0.009	0.024	---	---	0.221	1980
1981	---	---	0.306	0.136	0.087	0.082	0.191	0.117	0.195	0.100	---	---	0.149	1981
1982	---	---	0.174	1.49	0.283	0.181	0.272	0.010	0.001	0.033	---	---	0.301	1982
1983	---	---	0.818	5.87	0.432	0.150	0.080	0	0	0	---	---	0.918	1983
1984	---	---	0.307	0.473	0.355	0.077	0.003	0.001	0.001	0.008	---	---	0.153	1984
1985	---	---	4.38	2.90	0.208	0.039	0.009	0.247	0.147	0.127	---	---	1.00	1985
1986	---	---	4.51	4.09	3.01	0.186	0.323	0.278	0.018	0.056	---	---	1.56	1986
MEAN	---	---	0.945	3.89	0.926	0.251	0.167	0.248	0.117	0.041	---	---	0.815	MEAN

LOCATION - LAT 49 35 31 N LONG 99 02 00 W
DRAINAGE AREA, 269 km²
NATURAL FLOW

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	22.1 B ON MAR 27	0 B ON MAR 1 *	17 000	1961
1962	---	28.9 ON APR 21	0 B ON MAR 1	30 300	1962
1963	---	5.048 ON MAR 27	0 B ON MAR 1	9 800	1963
1964	---	4.288 ON APR 13	0 B ON MAR 1	8 190	1964
1975	---	4.96 ON APR 29	0.0018 ON MAR 1	10 900	1975
1976	---	56.1 ON APR 8	0 ON AUG 4	31 700	1976
1977	---	4.19 ON MAY 22	0.0018 ON MAR 1	8 270	1977
1978	---	18.1 ON APR 9	0 B ON MAR 1	21 400	1978
1979	---	84.7 B ON APR 22 *	0 B ON MAR 1	49 800	1979
1980	---	5.958 ON APR 9	0 ON JUN 14	4 880	1980
1981	2.21 AT 00 45 CST ON AUG 24	1.13 ON AUG 24	0.001 ON AUG 22	3 180	1981
1982	5.23 AT 04 58 CST ON JUL 17	3.38 ON JUL 17	0 B ON MAR 1	6 380	1982
1983	18.4 B AT 14 15 CST ON MAR 31	18.0 B ON MAR 31	0 B ON MAR 1	19 400	1983
1984	2.278 AT 22 38 CST ON APR 1	2.249 ON MAR 25	0 B ON MAR 1	3 230	1984
1985	22.9 B AT 07 45 CST ON MAR 27	21.1 B ON MAR 28	0 B ON MAR 1	21 300	1985
1986	24.6 B AT 08 27 CST ON MAR 30 *	23.5 B ON MAR 30	0.010 ON SEP 13	23 000	1986
				17 300	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DAUPHIN RIVER NEAR ANAMA BAY - STATION NO. 05LM005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	4.09	1.48	2.11	30.3	29.6	26.7	115	112	52.5	66.3	70.0	66.8	47.7	1977
1978	71.0	74.2	94.9	129	109	89.2	64.4	39.4	30.2	26.1	22.2	12.3	61.7	1978
1979	12.7	18.4	22.8	72.1	255	313	312	272	200	151	135	84.0	155	1979
1980	82.0	112	129	144	107	53.2	30.6	27.9	46.6	83.2	82.4	42.6	74.9	1980
1981	36.7	38.2	44.5	54.3	40.5	28.2	15.6	15.0	15.5	19.5	22.0	19.4	29.0	1981
1982	5.51	0.859	3.06	36.9	58.7	34.3	25.2	15.0	12.3	14.2	18.2	7.71	19.2	1982
1983	6.50	4.44	6.73	19.8	51.9	99.8	121	126	96.6	65.1	50.4	19.7	56.0	1983
1984	18.4	23.0	27.9	74.8	84.8	52.0	92.8	112	70.6	51.8	40.2	32.5	55.2	1984
1985	32.5	40.4	50.0	137	122	110	101	70.5	58.0	84.2	80.9	54.6	76.1	1985
1986	58.5	64.5	73.3	132	192	244	244	205	108	88.6	63.7	45.1	123	1986
MEAN	32.8	37.7	46.4	83.0	103	103	112	99.5	68.8	58.0	52.3	38.5	89.8	MEAN

LOCATION - LAT 52 00 00 N LONG 98 19 20 W
DRAINAGE AREA, 82 800 km²
REGULATED SINCE 1976

DAUPHIN RIVER NEAR ANAMA BAY - STATION NO. 05LM005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	153 AT 04 07 CST ON AUG 4	151 ON AUG 4	1.02 B ON MAR 9	1 500 000	1977
1978	156 AT 03 00 CST ON APR 28	149 ON APR 25	10.0 B ON DEC 11	1 940 000	1978
1979	---	320 E ON JUN 12 *	11.3 B ON JAN 18	4 880 000	1979
1980	---	152 B ON APR 6	15.0 E ON AUG 18	2 370 000	1980
1981	---	57.3E ON APR 15	8.87 E ON SEP 22	915 000	1981
1982	88.1 AT 15 12 CST ON APR 24	84.2 ON APR 25	0.3208 ON FEB 14 *	606 000	1982
1983	148 AT 12 50 CST ON JUN 28	137 ON JUN 19	3.83 B ON FEB 20	1 760 000	1983
1984	125 AT 06 15 CST ON AUG 12	123 ON AUG 12	16.6 B ON JAN 25	1 740 000	1984
1985	159 AT 07 16 CST ON APR 6	157 B ON APR 6	30.8 B ON JAN 5	2 400 000	1985
1986	255 AT 08 35 CST ON JUN 25 *	254 ON JUN 25	35.6 B ON NOV 9	3 890 000	1986
				2 200 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEAD CREEK NEAR LEE RIVER NORTH OF PINAWA - STATION NO. 05PF065

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	0.078	0.052	0.165	3.23	2.29	0.086	0.010	0.002	0.012	0.028	0.123	0.105	0.514	1986
MEAN	0.078	0.052	0.165	3.23	2.29	0.086	0.010	0.002	0.012	0.028	0.123	0.105	0.514	MEAN

NATURAL FLOW

DATA CONTRIBUTED BY - ATOMIC ENERGY OF CANADA

DEAD CREEK NEAR LEE RIVER NORTH OF PINAWA - STATION NO. 05PF065

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	12.0 ON APR 30 *	11.6 ON APR 30 *	0E ON AUG 25 *	16 200	1986
				16 200	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	15.6	0.497	0	0	0	0	0	---	---	1.97	1974
1975	---	---	0	0.421	1.04	0.004	0	0	0.003	0.001	---	---	0.184	1975
1976	---	---	0	10.0	0.005	0	0	0	0	0	---	---	1.23	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.114	0	0	0	0	0	0	---	---	0.014	1978
1979	---	---	0	20.8	1.89	0.013	0	0	0	0	---	---	2.76	1979
1980	---	---	0	0.002	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.370	0	0	0	0	0	0	---	---	0.045	1982
1983	---	---	0	5.72	0.015	0	0	0	0	0	---	---	0.825	1983
1984	---	---	0.001	0.001	0.130	0	0	0	0	0	---	---	0.017	1984
1985	---	---	0	0	0	0	0	0	0	0	---	---	0	1985
MEAN	---	---	0	4.49	0.288	0.001	0	0	0	0	---	---	0.587	MEAN

LOCATION - LAT 50 10 59 N
LONG 98 56 58 W

NATURAL FLOW

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	138 ON APR 18	0B ON MAR 1 *	41 800	1974
1975	---	12.8 ON MAY 1	0B ON MAR 1	3 880	1975
1976	---	55.2 B ON APR 7	0B ON MAR 1	26 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	---	1.25 B ON APR 11	0B ON MAR 1	296	1978
1979	---	161 B ON APR 23 *	0B ON MAR 1	58 400	1979
1980	---	0.0108 ON APR 7	0B ON MAR 1	5.13	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	---	4.88 B ON APR 15	0B ON MAR 1	959	1982
1983	80.5 AT 23:48 CST ON APR 22 *	52.3 ON APR 23	0B ON MAR 1	17 400	1983
1984	0.263 AT 02:31 CST ON MAY 13	0.255 ON MAY 13	0B ON MAR 1	353	1984
1985	---	0 B ON MAR 1	0B ON MAR 1	0	1985
				12 400	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEADHORSE CREEK AT MORDEN - STATION NO. 05OC015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.40	1.83	1.25	0.041	0.055	0.005	0.003	0.003	---	---	0.572	1966
1967	---	---	0.334	1.98	0.482	0.080	0	0.001	0	0	---	---	0.353	1967
1968	---	---	0.215	0.063	0.065	0	0.001	1.14	0.373	0.029	---	---	0.236	1968
1969	---	---	0	4.05	0.074	0.949	0.437	0.007	0	0	---	---	0.678	1969
1970	---	---	0	5.40	0.866	0.242	0.200	0.033	0.009	0.006	---	---	0.831	1970
1971	---	---	0	4.45	0.080	0.133	0.014	0.011	0.007	0.020	---	---	0.575	1971
1978	---	---	0.004	0.941	0.317	0.207	0.015	0.006	0.052	0	---	---	0.180	1978
1979	---	---	0	4.27	1.12	0.214	0.110	0	0	0	---	---	0.705	1979
1980	---	---	0	0.131	0	0	0	0	0.083	0.006	---	---	0.027	1980
1981	---	0.001	0.003	0.004	0.112	0.020	0	0.109	0.001	0.017	---	---	0.034	1981
1982	---	---	0.041	0.333	0.035	0.188	0.044	0.001	0.078	0.025	---	---	0.080	1982
1983	---	---	0.110	1.10	0.034	0.005	0.001	0	0	0	---	---	0.153	1983
1984	---	---	0.003	0.004	0.005	0.004	0	0	0	0.029	---	---	0.006	1984
1985	---	---	0.524	0.087	0.012	0.003	0.008	0.809	0.005	0.008	---	---	0.159	1985
1986	---	---	1.43	0.699	0.773	0.010	0.005	0.001	0	0	---	---	0.366	1986
MEAN	---	0.001	0.271	1.88	0.347	0.137	0.059	0.128	0.041	0.010	---	---	0.332	MEAN

LOCATION - LAT 49 11 47 N
LONG 98 06 38 W

DRAINAGE AREA, 142 km^2
REGULATED

DEADHORSE CREEK AT MORDEN - STATION NO 05OCO15

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	14.2 B ON MAR 31	0B ON MAR 1 *	12 100	1966
1967	---	26.9 ON APR 20	0B ON MAR 1	7 480	1967
1968	---	14.0 ON AUG 25	0B ON MAR 1	5 000	1968
1969	---	41.3 B ON APR 9	0B ON MAR 1	14 300	1969
1970	---	41.9 ON APR 26 *	0B ON MAR 1	17 800	1970
1971	---	39.6 ON APR 11	0B ON MAR 1	12 100	1971
1978	---	3.51 ON APR 10	0B ON MAR 1	4 030	1978
1979	---	33.5 B ON APR 19	0B ON MAR 1	15 000	1979
1980	---	0.8928 ON APR 7	0B ON MAR 1	570	1980
1981	0.890 AT 16 48 CST ON MAY 25	0.788 ON MAY 25	0B ON MAR 1	711	1981
1982	1.42 AT 00 55 CST ON SEP 28	1.18 ON SEP 28	0B ON MAR 1	1 900	1982
1983	8.50 AT 22 24 CST ON APR 6	5.83 ON APR 6	0B ON MAR 1	3 240	1983
1984	0.435 AT 23:00 CST ON OCT 15	0.409 ON OCT 15	0B ON MAR 1	120	1984
1985	18 0 AT 10 33 CST ON AUG 17	11.2 ON AUG 17	0B ON MAR 1	3 350	1985
1986	26.5 B AT 01 24 CST ON MAR 23 *	11.9 B ON MAR 23	0B ON MAR 1	7 740	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 010	MEAN

DEADHORSE CREEK NEAR MORDEN - STATION NO 05OCO23

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	0.826	1.10	0.202	0.007	0.019	0.001	0	0.001	---	---	0.288	1972
1973	---	---	0.010	0.008	0.007	0.003	0.001	0	0	0.001	---	---	0.004	1973
1974	---	---	0	4.77	3.14	0.241	0.001	0	0	0	---	---	1.01	1974
1975	---	---	0	0.459	0.343	0.579	0.068	0.023	0.024	0.085	---	---	0.193	1975
1976	---	---	0.008	2.02	0.034	0.017	0.002	0	0	0	---	---	0.258	1976
MEAN	---	---	0.169	1.67	0.745	0.169	0.018	0.005	0.005	0.013	---	---	0.348	MEAN

LOCATION - LAT 49 13 00 N LONG 98 05 30 W
DRAINAGE AREA, 149 km^2
REGULATED

DEADHORSE CREEK NEAR MORDEN - STATION NO. 05OCO23

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	5 18 B ON MAR 19	0B ON MAR 1 *	5 670	1972
1973	---	0.0578 ON MAR 13	0B ON MAR 1	74.2	1973
1974	---	37.4 ON MAY 21 *	0B ON MAR 1	21 400	1974
1975	1.94 AT 03 39 CST ON JUN 23	1.87 ON APR 29	0B ON MAR 1	4 080	1975
1976	22.5 B AT 08:00 CST ON APR 5 *	15.5 B ON APR 5	0B ON MAR 1	5 410	1976
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 330	MEAN

DEER RIVER NORTH OF BELCHER - STATION NO 06FD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	0.600	0.552	0.506	0.480	22.4	19.8	16.7	39.4	38.0	8.04	1.97	1.75	12.7	1978
1979	1.48	1.07	0.808	0.712	27.4	56.9	22.1	11.0	13.2	19.6	7.04	2.53	13.9	1979
1980	0.883	0.605	0.508	14.5	---	---	19.8	---	25.5	18.6	5.85	2.18	---	1980
1981	1.23	0.851	0.871	0.519	56.3	29.8	19.5	12.2	10.8	28.3	9.87	1.97	14.4	1981
1982	0.797	0.459	0.187	0.015	---	64.3	20.7	5.53	7.87	12.4	5.32	2.80	---	1982
1983	1.71	1.31	1.07	0.959	3.23	164	18.2	22.2	79.0	30.1	10.3	4.32	27.9	1983
1984	2.75	1.37	0.780	18.0	79.5	46.8	8.48	2.66	2.89	4.84	1.96	0.955	14.3	1984
1985	0.611	0.355	0.236	0.402	67.2	33.7	9.55	3.49	4.70	8.89	2.03	0.819	11.1	1985
1986	0.498	0.394	0.377	0.388	84.2	62.4	60.4	33.5	16.8	7.83	2.71	1.30	22.8	1986
MEAN	1.17	0.774	0.569	4.00	48.6	80.0	21.7	15.2	22.0	15.5	5.18	2.05	16.7	MEAN

LOCATION - LAT 58 00 54 N LONG 94 11 44 W
DRAINAGE AREA, 1 880 km^2
NATURAL FLOW

DEER RIVER NORTH OF BELCHER - STATION NO. 05FD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	81.6 AT 12:45 CST ON AUG 22	81.0 ON AUG 21	0.4538 ON APR 8	389 000	1978
1979	---	129 B ON MAY 27	0.6778 ON APR 12	437 000	1979
1980	---	---	0.4878 ON APR 9	---	1980
1981	---	205 B ON MAY 23	0.3918 ON MAY 11	456 000	1981
1982	---	---	0.0088 ON APR 11 *	---	1982
1983	---	324 B ON JUN 8 *	0.8838 ON MAY 20	879 000	1983
1984	209 AT 01:00 CST ON MAY 22 *	206 ON MAY 21	0.5748 ON APR 8	451 000	1984
1985	---	89.9E ON MAY 15	0.1008 ON APR 21	348 000	1985
1986	---	283 B ON MAY 15	0.3738 ON MAR 4	718 000	1986
				527 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0.078	7.21	0.559	0.322	0.189	0.043	0.148	0.220	---	---	1.08	1971
1972	---	---	0.014	3.49	0.177	0.090	0.042	0.048	0.025	0.084	---	---	0.485	1972
1973	---	---	1.23	0.248	0.074	3.42	0.273	0.089	0.310	0.594	---	---	0.772	1973
1974	---	---	0.023	10.1	5.55	0.437	0.078	0.062	0.089	0.061	---	---	2.03	1974
1975	---	---	0.018	2.83	0.383	2.47	0.518	0.103	0.052	0.078	---	---	0.787	1975
1976	---	---	0	4.02	0.155	1.07	0.107	0.042	0.044	0.030	---	---	0.672	1976
1977	---	---	0.088	0.411	0.072	0.084	0.108	0.083	1.37	0.324	---	---	0.314	1977
1978	---	---	0	6.58	0.890	0.384	0.704	0.057	0.053	0.084	---	---	1.07	1978
1979	---	---	0	7.82	2.14	1.28	0.100	0.058	0.126	0.058	---	---	1.43	1979
1980	---	---	0	2.90	0.103	0.036	0.025	0.024	0.033	0.032	---	---	0.387	1980
1981	---	---	0.288	0.078	0.089	0.049	0.031	0.030	0.021	0.099	---	---	0.084	1981
1982	---	---	0.204	1.78	0.057	0.114	0.107	0.024	0.027	0.118	---	---	0.301	1982
1983	---	---	0.388	3.47	0.130	0.178	0.168	0.030	0.043	0.028	---	---	0.547	1983
1984	---	---	0.230	0.476	0.053	0.473	0.105	0.031	0.034	0.157	---	---	0.193	1984
1985	---	---	1.33	1.03	0.268	0.073	0.145	0.733	0.506	0.487	---	---	0.573	1985
1986	---	---	1.86	3.90	1.46	0.182	0.083	0.085	0.056	0.074	---	---	0.854	1986
MEAN	---	---	0.360	3.51	0.758	0.885	0.175	0.095	0.182	0.155	---	---	0.729	MEAN

LOCATION - LAT 50 11 40 N DRAINAGE AREA, 249 km^2
LONG 96 42 50 W NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	32.8 AT 21:29 CST ON APR 10 *	28.2 ON APR 10	0.012 ON AUG 11	22 900	1971
1972	---	15.5 ON APR 15	0 B ON MAR 1 *	10 300	1972
1973	---	34.8 ON JUN 20	0 B ON MAR 1	16 300	1973
1974	---	56.3 ON APR 21 *	0.0178 ON MAR 1	42 800	1974
1975	19.9 AT 02:38 CST ON JUN 23	17.0 ON JUN 23	0.0158 ON MAR 1	16 200	1975
1976	---	17.0 B ON APR 5	0 B ON MAR 1	14 200	1976
1977	---	10.5 ON SEP 9	0 B ON MAR 1	6 650	1977
1978	17.8 AT 22:17 CST ON APR 15	15.7 ON APR 17	0 B ON MAR 1	22 700	1978
1979	---	47.8 B ON APR 19	0 B ON MAR 1	30 200	1979
1980	---	10.7 B ON APR 10	0 B ON MAR 1	8 180	1980
1981	0.445 AT 13:00 CST ON MAR 13	0.4458 ON MAR 13	0.005 ON AUG 26	1 780	1981
1982	9.89 B AT 22:22 CST ON APR 14	7.05 B ON APR 14	0 B ON MAR 1	6 380	1982
1983	16.0 B AT 19:23 CST ON APR 5	13.2 B ON APR 5	0 B ON MAR 1	11 600	1983
1984	2.17 AT 22:28 CST ON JUN 21	1.84 B ON MAR 29	0 B ON MAR 1	4 090	1984
1985	6.58 B AT 02:08 CST ON MAR 25	5.58 B ON MAR 24	0 B ON MAR 1	12 100	1985
1986	---	17.7 B ON MAR 29	0 B ON MAR 1	20 200	1986
				15 400	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	5.11	0.548	0.009	0.001	0.005	0.010	0.024	---	---	0.700	1967
1968	---	---	0.583	0.947	0.444	0.301	0.326	2.32	0.547	0.298	---	---	0.720	1968
1969	---	---	0	5.43	0.744	0.175	0.025	0.008	0.057	0.162	---	---	0.812	1969
1970	---	---	0	3.87	1.18	0.784	0.183	0.136	0.722	0.286	---	---	0.895	1970
MEAN	---	---	0.141	3.86	0.729	0.317	0.129	0.617	0.334	0.185	---	---	0.782	MEAN

LOCATION - LAT 50 13 20 N DRAINAGE AREA, 281 km^2
LONG 96 43 30 W NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR SEMPLE - STATION NO. 05DJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---				
1968	---	15.2 ON APR 15	08 ON MAR 1 *	14 800	1967
1969	---	15.3 ON AUG 25	08 ON MAR 1	15 200	1968
1970	---	23.78 ON APR 10 *	08 ON MAR 1	17 200	1969
		12.18 ON APR 17	08 ON MAR 1	19 000	1970
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 600	MEAN

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05DG009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.139	0.017	0.068	0.027	0.021	0.003	0	0	---	---	0 034	1981
1982	---	---	0.081	0.384	0	0	0	0	0	0.005	---	---	0 058	1982
1983	---	---	0.210	1.78	0	0.001	0	0	0	0	---	---	0 246	1983
1984	---	---	0.024	0.159	0.017	0.030	0.010	0	0	0	---	---	0 030	1984
1985	---	---	1.01	0.186	0	0	0	0.009	0.074	0 103	---	---	0 175	1985
1986	---	---	0.386	0.645	0.157	0.008	0.049	0.003	0	0	---	---	0 155	1986
MEAN	---	---	0.308	0.532	0.040	0.011	0.013	0.003	0.012	0.018	---	---	0 118	MEAN

LOCATION - LAT 49 39 32 N, LONG 97 17 20 W. DRAINAGE AREA, 67.9 km^2. NATURAL FLOW

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05DG009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	0.848 AT 12:05 CST ON MAY 23	0.434 ON MAY 24	08 ON MAR 1 *	729	1981
1982	3.92 AT 16:55 CST ON APR 14	2.87 ON APR 15	08 ON MAR 1	1 230	1982
1983	11.4 AT 01:05 CST ON APR 7 *	10.2 ON APR 6 *	08 ON MAR 1	5 200	1983
1984	---	0.7578 ON APR 2	08 ON MAR 1	825	1984
1985	7.79 B AT 20:41 CST ON MAR 25	6.52 B ON MAR 25	08 ON MAR 1	3 720	1985
1986	5.42 AT 00:00 CST ON APR 2	3.83 ON APR 2	08 ON MAR 1	3 290	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 470	MEAN

DRAINAGE DITCH NEAR LIBAU - STATION NO. 05DJ013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	0.278	0.011	0	0	0	0	0	---	---	0.035	1967
1969	---	---	0	0.371	0.034	0.013	0.002	0	0	0	---	---	0.052	1969
1970	---	---	0	0.548	0.023	0 001	0	0	0	0	---	---	0.070	1970
1971	---	---	0	0.705	0.014	0.008	0 003	0	0	0	---	---	0 089	1971
1972	---	---	0	0.285	0.002	0	0	0	0	0	---	---	0 035	1972
1973	---	---	0.062	0.007	0	0.127	0	0	0	0	---	---	0.027	1973
1975	---	---	0	0.363	0.003	0 181	0 001	0	0	0	---	---	0 085	1975
1976	---	---	0	0.329	0.001	0.376	0.001	0	0	0	---	---	0 087	1976
1977	---	---	0	0.078	0.010	0.013	0.003	0	0.253	0.003	---	---	0.044	1977
MEAN	---	---	0.009	0.329	0.011	0.078	0.001	0	0.028	0	---	---	0.056	MEAN

LOCATION - LAT 50 13 50 N, LONG 96 43 30 W. DRAINAGE AREA, 13.5 km^2. NATURAL FLOW

DRAINAGE DITCH NEAR LIBAU - STATION NO. 05DJ013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	1.08 ON APR 15	08 ON MAR 1 *	750	1967
1969	---	3.43 ON APR 10	0 ON MAR 1	1 090	1969
1970	---	2.838 ON APR 17	08 ON MAR 1	1 480	1970
1971	---	5.688 ON APR 10	08 ON MAR 1	1 900	1971
1972	---	3.37 ON APR 15	08 ON MAR 1	745	1972
1973	---	1.53 ON JUN 20	0 ON MAR 1	585	1973
1975	---	6.288 ON APR 15 *	08 ON MAR 1	1 370	1975
1976	---	2.898 ON APR 6	08 ON MAR 1	1 830	1976
1977	---	2.13 ON SEP 10	08 ON MAR 1	939	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 190	MEAN

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.15	2.85	4.78	1.85	0.076	0.545	0.887	0.292	---	---	1954
1955	---	---	---	3.45	2.25	0.794	0.058	0	0.003	0.001	0.001	---	---	1955
1956	---	---	0.046	1.81	5.77	0.669	0.310	0.013	0.070	0.096	0.212	---	1.05	1956
1957	---	---	0.087	3.65	0.838	0.158	0.037	0	0	0	---	---	0.800	1957
1958	---	---	0.104	0.340	0.080	0.034	0.005	0	0	0	---	---	0.067	1958
1959	---	---	0.485	0.544	0.286	0.890	0.340	0	0	0.015	---	---	0.315	1959
1960	---	---	0	3.63	1.40	0.548	0.014	0	0	0	---	---	0.890	1960
1961	---	---	0.003	0.075	0.037	0	0	0	0	0	---	---	0.014	1961
1962	---	---	0	0.786	0.083	0.073	0.029	0.001	0	0	---	---	0.121	1962
1963	---	---	0.184	0.480	0.383	0.354	0.188	0.001	0	0	---	---	0.195	1963
1964	---	---	0	0.278	0.125	0.024	0	0	0	0	---	---	0.053	1964
1965	---	---	0	0.744	0.362	0.278	0.306	0.277	0.651	0.441	---	---	0.379	1965
1966	---	---	0.344	3.35	0.959	0.532	0.289	0.072	0.054	0.007	---	---	0.695	1966
1967	---	---	0.008	4.33	1.97	0.101	0.006	0	0	0	---	---	0.784	1967
1968	---	---	0.128	0.327	0.048	0.026	0	0	0	0	---	---	0.068	1968
1969	---	---	0	1.74	0.181	0.081	0.483	0.188	0.006	0.078	---	---	0.339	1969
1970	---	---	0.026	4.49	2.76	0.848	0.383	0.128	0	0.006	---	---	1.07	1970
1971	---	---	0.003	2.64	0.321	0.388	0.034	0	0	0	---	---	0.489	1971
1972	---	---	0.235	2.43	0.831	0.047	0	0	0	0	---	---	0.451	1972
1973	---	---	0.046	0.052	0.015	0.185	0.016	0.002	0.023	0.083	---	---	0.055	1973
1974	---	---	0	4.80	4.40	0.808	0	0	0	0	---	---	1.22	1974
1975	---	---	0	3.54	1.76	1.50	0.097	0	0.332	0.309	---	---	0.934	1975
1976	---	---	0.006	3.84	0.408	4.97	0.216	0	0	0	---	---	1.17	1976
197.	---	---	0	0.016	0.029	0.014	0.283	0.006	0.021	0.022	---	---	0.045	1977
MEAN	---	---	0.077	2.10	1.18	0.774	0.203	0.031	0.071	0.072	0.188	---	0.492	MEAN

LOCATION - LAT 51 19 10 N LONG 100 22 00 W DRAINAGE AREA 252 km² NATURAL FLOW

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	13.9 ON APR 17	0B ON APR 1 *	---	1954
1955	---	8.33 B ON APR 4	0 ON JUL 17	---	1955
1956	---	12.2 ON MAY 9	0 ON AUG 7	22 800	1956
1957	---	8.95 ON APR 26	0B ON MAR 1	12 700	1957
1958	---	1.53 ON APR 2	0B ON MAR 1	1 420	1958
1959	---	3.77 ON JUN 29	0B ON MAR 1	6 590	1959
1960	---	12.7 ON APR 13	0B ON MAR 1	14 300	1960
1961	---	0.1818 ON APR 14	0B ON MAR 1	303	1961
1962	---	6.08 B ON APR 20	0B ON MAR 1	3 550	1962
1963	---	1.53 ON APR 10	0B ON MAR 1	4 180	1963
1964	---	0.8188 ON APR 19	0B ON MAR 1	1 120	1964
1965	---	2.58 ON APR 13	0B ON MAR 1	8 030	1965
1966	---	24.1 ON APR 2	0 ON JUL 28	14 700	1966
1967	---	25.7 B ON APR 27 *	0 ON JUL 10	16 800	1967
1968	---	0.0718 ON MAR 28	0B ON MAR 1	1 390	1968
1969	---	11.9 B ON APR 13	0B ON MAR 1	7 170	1969
1970	---	20.7 ON APR 25	0 ON AUG 15	22 800	1970
1971	---	15.9 B ON APR 11	0 ON JUL 22	10 600	1971
1972	---	6.37 B ON APR 16	0B ON MAR 1	9 540	1972
1973	---	0.818 ON JUN 21	0B ON MAR 1	1 160	1973
1974	---	24.5 B ON APR 19	0B ON MAR 1	25 800	1974
1975	---	10.4 B ON APR 20	0B ON MAR 1	19 800	1975
1976	---	25.4 ON JUN 14	0 ON JUL 28	24 800	1976
1977	---	2.62 ON JUL 15	0B ON MAR 1	981	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 400	MEAN

DUCK RIVER AT COWAN - STATION NO. 05LG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.126	1.23	1.99	1.23	2.02	2.66	0.548	0.377	---	---	1.28	1968
1969	---	---	0.147	2.62	2.42	1.84	1.18	0.555	0.916	2.99	---	---	1.54	1969
1970	---	---	0.184	2.58	9.06	1.90	3.85	0.550	0.830	3.90	---	---	2.87	1970
1971	---	---	0.178	5.41	1.91	3.52	2.79	0.639	0.423	1.06	---	---	1.98	1971
1972	---	---	0.176	4.20	5.22	0.878	0.882	0.253	0.176	0.318	---	---	1.48	1972
1973	---	---	0.083	1.00	2.71	6.28	2.77	0.433	2.21	1.23	---	---	2.32	1973
1974	---	---	0.230	5.72	9.52	2.29	0.339	0.529	1.01	0.808	---	---	2.55	1974
1975	---	---	0.207	2.89	6.83	3.31	0.277	0.261	4.24	1.84	---	---	2.47	1975
1976	---	---	0.235	6.84	2.58	9.08	0.579	0.224	0.131	0.165	---	---	2.44	1976
1977	---	---	0.181	1.41	0.917	0.197	0.869	1.19	4.44	1.82	---	---	1.32	1977
1978	---	---	0.195	2.92	2.13	0.703	0.139	0.082	0.233	0.468	---	---	0.850	1978
1979	---	---	0.128	1.29	12.1	3.28	0.261	0.081	0.081	0.388	---	---	2.21	1979
1980	---	---	0.008	2.08	0.401	0.109	0.081	0.575	0.199	0.274	---	---	0.459	1980
1981	---	---	0.055	0.864	0.975	2.51	0.540	0.172	0.141	0.559	---	---	0.723	1981
1982	---	---	0.020	1.87	1.58	1.05	5.08	0.417	0.218	0.627	---	---	1.35	1982
1983	---	---	0.139	2.48	7.81	2.32	2.06	0.211	0.248	0.380	---	---	1.96	1983
1984	---	---	0.397	2.79	5.28	5.12	0.634	0.170	0.532	2.02	---	---	2.11	1984
1985	---	---	0.362	8.27	2.17	2.37	0.780	3.50	1.02	1.59	---	---	2.49	1985
1986	---	---	0.922	4.75	4.78	1.20	1.36	0.314	1.36	1.15	---	---	1.91	1986
MEAN	---	---	0.189	3.22	4.23	2.69	1.36	0.673	0.997	1.15	---	---	1.81	MEAN

LOCATION - LAT 52 01 50 N LONG 100 38 00 W DRAINAGE AREA 223 km² NATURAL FLOW

DUCK RIVER AT COWAN - STATION NO. 05LG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	17.7 ON AUG 20	0.0888 ON MAR 1	27 000	1968
1969	---	14.5 ON OCT 4	0.108 ON AUG 27	32 700	1969
1970	---	23.6 E ON OCT 29			
1971	---	23.8 ON JUL 25	0.139 ON SEP 18	80 700	1970
1972	---	18.9 ON APR 30	0.1788 ON MAR 1	41 800	1971
1973	---	69.1 ON JUN 20	0.051 ON SEP 2	31 400	1972
1974	---	33.7 ON MAY 22	0.059 ON AUG 24	49 200	1973
			0.102 ON AUG 10	54 000	1974
1975	---	25.5 ON SEP 20			
1976	110 ON JUN 14	83.0 ON JUN 14 *	0.051 ON JUL 29	52 300	1975
1977	17.5 AT 05:41 CST ON SEP 26	15.6 ON SEP 26	0.119 ON SEP 26	51 700	1976
1978	11.4 AT 03:36 CST ON APR 29	10.6 ON APR 28	0.062 ON JUN 28	27 900	1977
1979	61.0 AT 07:30 CST ON MAY 26	35.9 ON MAY 26	0.007 ON AUG 10	18 000	1978
			0.019 ON SEP 1	45 700	1979
1980	6.51 AT 04:05 CST ON APR 22	6.23 ON APR 21	0.0058 ON MAR 1	9 720	1980
1981	16.1 AT 11:33 CST ON JUN 24	13.3 ON JUN 24	0 E ON MAR 1 *	15 300	1981
1982	118 AT 18:01 CST ON JUL 17 *	49.9 ON JUL 18	0 E ON MAR 1	28 800	1982
1983	27.7 E AT 12:19 CST ON APR 24	20.3 ON MAY 19	0.077 ON AUG 26	41 500	1983
1984	39.0 AT 17:52 CST ON JUN 23	29.2 ON JUN 23	0.069E ON SEP 1	44 800	1984
1985	51.2 AT 02:45 CST ON AUG 14	39.2 ON AUG 14	0.2268 ON MAR 3	53 700	1985
1986	17.6 AT 05:42 CST ON MAY 5	15.9 ON MAY 5	0.0838 ON MAR 6	40 400	1986
				39 200	MEAN

E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	0.874	0.358	0.191	0.194	0.124	0.107	0.176	---	---	---	1961
1962	---	---	---	1.86	0.378	0.352	0.236	0.215	0.120	0.284	---	---	---	1962
1963	---	---	0.581	6.98	0.980	3.87	0.537	0.529	0.506	0.375	---	---	3.06	1963
1964	---	---	0.173	1.92	1.02	0.535	0.454	0.418	0.323	0.428	---	---	0.907	1964
1965	---	---	0.057	3.29	1.05	0.922	0.696	0.383	0.351	0.279	---	---	1.34	1965
1966	---	---	0.145	2.13	1.38	0.385	0.355	0.211	0.183	0.211	---	---	1.01	1966
1967	---	---	0.076	4.05	0.917	0.346	0.296	0.237	0.152	0.187	---	---	1.33	1967
1968	---	---	0.504	1.71	0.788	0.589	0.586	0.382	0.524	0.278	---	---	0.882	1968
1969	---	---	0.110	3.88	0.457	0.462	0.291	0.887	0.419	0.500	---	---	1.16	1969
1970	---	---	0.133	4.38	1.22	0.506	0.384	0.255	0.193	0.184	---	---	1.54	1970
1971	---	---	0.068	2.24	0.240	0.244	0.256	0.169	0.117	0.138	---	---	0.589	1971
1972	---	---	0.088	4.69	0.545	0.244	0.231	0.224	0.156	0.137	---	---	1.38	1972
1973	---	---	0.552	0.358	0.285	0.485	---	---	---	---	---	---	0.420	1973
1974	---	---	0.207	14.7	9.07	0.907	---	---	---	---	---	---	6.19	1974
1975	---	---	0.145	2.86	0.612	0.424	---	---	---	---	---	---	0.950	1975
1976	---	---	0.230	17.9	0.768	0.442	---	---	---	---	---	---	6.76	1976
1977	---	---	0.146	0.447	0.297	0.406	---	---	---	---	---	---	0.322	1977
1978	---	---	0.054	5.77	0.630	0.480	---	---	---	---	---	---	1.85	1978
1979	---	---	0.097	13.0	4.23	1.01	---	---	---	---	---	---	4.55	1979
1980	---	---	0.094	2.83	0.314	0.214	---	---	---	---	---	---	0.852	1980
1981	---	---	0.556	0.514	0.361	0.617	---	---	---	---	---	---	0.511	1981
1982	---	---	0.184	3.81	0.572	0.478	---	---	---	---	---	---	1.25	1982
1983	---	---	0.174	5.87	1.86	0.900	---	---	---	---	---	---	2.33	1983
1984	---	---	0.231	0.803	0.340	4.44	---	---	---	---	---	---	1.43	1984
1985	---	---	1.20	3.81	0.443	0.525	---	---	---	---	---	---	1.43	1985
1986	---	---	1.70	8.01	3.90	0.586	---	---	---	---	---	---	3.54	1986
MEAN	---	---	0.313	4.61	1.26	0.793	0.377	0.333	0.283	0.266	---	---	1.82	MEAN

LOCATION - LAT 51 13 00 N DRAINAGE AREA 387 km^2
LONG 97 32 00 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.65 ON APR 21	---	---	1961
1962	---	13.0 B ON APR 21	---	---	1962
1963	---	39.6 ON APR 9	0 B ON MAR 1 *	32 340	1963
1964	---	9.120 ON APR 16	0.1478 ON MAR 2	9 560	1964
1965	---	17.1 ON APR 14	0.0408 ON MAR 1	14 100	1965
1966	---	12.1 B ON APR 6	0.1308 ON MAR 1	10 600	1966
1967	---	18.7 ON APR 16	0.0748 ON MAR 1	14 100	1967
1968	---	5.218 ON APR 9	0.1198 ON MAR 1	5 300	1968
1969	---	23.0 ON APR 12	0.1108 ON MAR 1	12 200	1969
1970	---	15.0 B ON APR 19	0.1338 ON MAR 1	16 200	1970
1971	---	11.6 ON APR 19	0.0688 ON MAR 1	7 260	1971
1972	---	28.9 ON APR 18	0.0888 ON MAR 1	14 500	1972
1973	---	1.758 ON MAR 25	0.0458 ON MAR 1	4 430	1973
1974	---	64.8 ON APR 20	0.2078 ON MAR 1	85 200	1974
1975	---	9.978 ON APR 19	0.1428 ON MAR 1	10 000	1975
1976	---	61.2 B ON APR 7	0.2128 ON MAR 25	50 100	1976
1977	---	2.10 ON MAY 30	0.071 ON MAY 13	3 400	1977
1978	---	27.6 ON APR 18	0 B ON MAR 1	20 700	1978
1979	---	70.8 ON APR 23 *	0.0828 ON MAR 1	47 900	1979
1980	---	9.618 ON APR 11	0.0818 ON MAR 30	8 990	1980
1981	3.20 AT 23 07 CST ON JUN 19	2.98 ON JUN 19	0 ON JUN 30	5 390	1981
1982	---	25.7 E ON APR 15	0.0808 ON MAR 25	13 100	1982
1983	26.2 B AT 06 15 CST ON APR 6	26.1 B ON APR 6	0.017 ON APR 16	24 800	1983
1984	---	33.6 ON JUN 23	0.0308 ON MAR 19	15 100	1984
1985	12.0 B AT 08 27 CST ON APR 3	11.5 A ON APR 3	0.1208 ON MAR 24	15 100	1985
1986	34.3 AT 20 40 CST ON APR 1 *	33.8 B ON APR 1	0.0158 ON MAR 1	37 300	1986
				19 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	---	---	0.230	0.024	0.032	0.015	0.015	0.024	0.019	0.014	---	1964
1965	0.012	0.011	0.014	0.126	0.613	0.210	0.098	0.072	0.397	0.093	0.053	0.033	0.145	1965
1966	0.016	0.014	0.023	0.338	0.756	0.239	0.046	0.040	0.024	0.029	0.033	0.024	0.132	1966
1967	0.024	0.021	0.022	0.058	0.585	0.094	0.027	0.025	0.015	0.022	0.024	0.014	0.079	1967
1968	0.013	0.012	0.027	0.123	0.244	0.165	0.132	0.088	0.054	0.044	0.031	0.025	0.081	1968
1969	0.022	0.017	0.006	0.414	0.252	0.574	0.227	0.037	0.075	0.084	0.068	0.036	0.150	1969
1970	0.028	0.035	0.034	0.089	0.620	0.315	0.186	0.044	0.139	0.233	0.106	0.036	0.156	1970
1971	0.012	0.008	0.022	0.607	0.140	0.684	0.124	0.044	0.026	0.134	0.074	0.051	0.160	1971
1972	0.035	0.029	0.035	0.476	0.432	0.046	0.024	0.018	0.015	0.029	0.044	0.029	0.103	1972
1973	0.037	0.041	0.040	0.051	0.091	0.250	0.033	0.029	0.415	0.314	0.211	0.066	0.131	1973
1974	0.024	0.023	0.027	0.782	1.84	0.105	0.042	0.027	0.029	0.031	0.031	0.031	0.208	1974
1975	0.013	0.009	0.011	0.120	0.473	0.238	0.062	0.084	1.44	0.214	0.100	0.059	0.233	1975
1976	0.061	0.042	0.036	0.769	0.134	0.343	0.061	0.035	0.018	0.024	0.023	0.022	0.130	1976
1977	0.018	0.023	0.037	0.075	0.073	0.034	0.392	0.059	0.415	0.101	0.063	0.036	0.111	1977
1978	0.022	0.021	0.024	0.372	0.118	0.084	0.064	0.026	0.015	0.122	0.032	0.018	0.082	1978
1979	0.023	0.016	0.024	0.229	1.03	0.153	0.037	0.028	0.030	0.036	0.033	0.029	0.140	1979
1980	0.027	0.023	0.019	0.103	0.027	0.019	0.026	0.102	0.084	0.070	0.031	0.014	0.046	1980
1981	0.014	0.021	0.267	0.318	0.276	0.349	0.041	0.037	0.033	0.045	0.026	0.006	0.120	1981
1982	0	0	0.003	0.222	0.282	0.098	0.027	0.031	0.023	0.337	0.152	0.030	0.101	1982
MEAN	0.022	0.020	0.037	0.293	0.406	0.212	0.089	0.045	0.175	0.105	0.061	0.030	0.126	MEAN

LOCATION - LAT 50 59 03 N
LONG 100 03 35 W
DRAINAGE AREA 14.8 km^2
NATURAL FLOW

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	---	---	1964
1965	---	2.22 ON MAY 7	0.0118 ON JAN 11	4 580	1965
1966	---	2.64 ON MAY 19	0.0148 ON JAN 19	4 170	1966
1967	---	1.36 B ON MAY 15	0.0068 ON DEC 26	2 490	1967
1968	---	0.854 ON MAY 8	0.0088 ON JAN 1	2 580	1968
1969	---	4.96 E ON JUN 27	0.0058 ON MAR 11	4 720	1969
1970	---	1.75 B ON MAY 6	0.0238 ON DEC 29	4 930	1970
1971	---	5.66 E ON JUN 6	0.0078 ON FEB 10	5 040	1971
1972	---	1.81 ON APR 26	0 ON SEP 2 *	3 270	1972
1973	---	5.61 ON SEP 4	0 ON JUL 21	4 140	1973
1974	---	4.13 ON APR 27	0.0208 ON DEC 31	6 580	1974
1975	36.8 AT 05 16 CST ON SEP 19 *	26.9 ON SEP 15 *	0.0088 ON FEB 4	7 370	1975
1976	---	2.89 ON APR 14	0.012 ON MAY 30	4 110	1976
1977	---	6.20 E ON JUL 11	0.0148 ON JAN 7	3 500	1977
1978	---	2.09 A ON APR 25	0.0158 ON DEC 7	2 570	1978
1979	---	3.78 A ON MAY 17	0.0138 ON FEB 27	4 430	1979
1980	0.965 AT 11 02 CST ON AUG 4	0.529A ON SEP 4	0.0148 ON DEC 8	1 460	1980
1981	4.96 AT 12 09 CST ON JUN 15	2.30 ON JUN 15	0 B ON DEC 19	3 780	1981
1982	---	1.86 ON OCT 29	0 B ON JAN 1	3 190	1982
				4 050	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.151	---	1962
1963	0.070	0.145	0.129	1.09	0.448	0.594	0.113	0.053	0.084	0.089	0.106	0.150	0.254	1963
1964	0.127	0.118	0.130	0.628	0.552	0.081	---	---	---	---	---	---	---	1964
MEAN	0.099	0.132	0.130	0.859	0.500	0.338	0.113	0.053	0.084	0.089	0.106	0.151	0.254	MEAN

LOCATION - LAT 51 01 21 N LONG 100 06 54 W DRAINAGE AREA, 51.5 km² REGULATED

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	---	---	---	1962
1963	---	---	---	8 020	1963
1964	---	3.888 ON APR 8 *	0 ON JAN 15 *	---	1964
		---	---	8 020	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.103	2.15	0.089	0.037	0.079	0.488	0.400	0.274	---	---	0.447	1980
1981	---	---	0.129	0.833	1.52	1.82	0.240	0.232	0.042	0.118	---	---	0.613	1981
1982	---	---	0.080	4.06	1.63	0.295	0.054	0.041	0.008	0.889	---	---	0.875	1982
1983	---	---	0	5.87	2.78	1.28	0.758	0.031	0.034	0.051	---	---	1.34	1983
1984	---	---	0.175	0.803	2.20	0.903	0.065	0	0.007	0.524	---	---	0.573	1984
1985	---	---	1.81	5.77	0.724	1.22	0.128	1.50	1.21	2.56	---	---	1.85	1985
1986	---	---	2.50	4.49	9.11	0.329	0.124	0.094	0.072	0.157	---	---	2.12	1986
MEAN	---	---	0.882	3.40	2.59	0.841	0.207	0.338	0.263	0.855	---	---	1.12	MEAN

LOCATION - LAT 51 08 30 N LONG 99 55 30 W DRAINAGE AREA, 311 km² REGULATED

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

EAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
980	---				
981	12.5 AT 18 55 CST ON JUN 13	5.978 ON APR 8	0 ON MAY 22 *	9 450	1980
982	---	5.51 ON JUN 18	0 ON SEP 18	13 000	1981
983	---	17.3 B ON APR 14	08 ON MAR 1	18 500	1982
984	8.22 AT 19 15 CST ON JUN 23	42.0 B ON APR 22	08 ON MAR 1	28 300	1983
		6.50 ON MAY 12	08 ON MAR 1	12 100	1984
985	24.7 B AT 09 55 CST ON APR 2	16.3 ON APR 20	08 ON MAR 1	35 200	1985
986	111 AT 02 11 CST ON MAY 6 *	79.5 ON MAY 6 *	08 ON MAR 1	44 700	1986
				23 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.086	5.44	2.24	1.45	0.104	0.088	0.122	0.121	---	---	1.20	1957
1958	---	---	0.383	1.31	0.280	0.086	0.313	0.016	0.026	0.147	---	---	0.316	1958
1959	---	---	0.044	1.84	2.14	0.877	0.515	0.072	0.105	0.847	---	---	0.753	1959
1960	---	---	0.082	4.28	5.01	0.684	0.127	0.074	0.012	0.056	---	---	1.41	1960
1961	---	---	0.012	0.521	0.675	0.035	0.038	0	0	0.006	---	---	0.161	1961
1962	---	---	0.100	0.803	1.15	0.868	0.032	0.044	0.144	0.381	---	---	0.439	1962
1963	---	---	0.264	2.73	1.24	1.69	0.275	0.083	0.172	0.178	---	---	0.820	1963
1964	---	---	0	2.48	1.20	0.086	0.077	0.012	0.022	0.039	---	---	0.485	1964
1965	---	---	0.003	1.09	2.05	0.850	0.250	0.123	1.85	0.417	---	---	0.827	1965
1966	---	---	0.179	1.97	2.94	0.712	0.206	0.170	0.015	0.086	---	---	0.781	1966
1967	---	---	0	0.981	3.37	0.216	0.030	0.021	0	0.040	---	---	0.585	1967
1968	---	---	0.218	0.894	0.782	0.430	1.08	0.339	0.118	0.123	---	---	0.471	1968
1969	---	---	0.006	1.43	0.606	3.21	1.42	0.111	0.190	0.186	---	---	0.887	1969
1970	---	---	0.133	1.11	5.39	0.896	0.497	0.084	0.257	0.311	---	---	1.22	1970
1971	---	---	0.153	2.62	0.556	2.24	0.549	0.155	0.109	0.582	---	---	0.863	1971
1972	---	---	0.407	2.40	1.82	0.174	0.046	0.014	0.020	0.031	---	---	0.511	1972
1973	---	---	0.645	0.426	0.259	0.504	0.053	0.043	0.921	0.998	---	---	0.480	1973
1974	---	---	0	5.43	8.86	0.620	0.075	0.097	0.312	0.240	---	---	1.95	1974
1975	---	---	0.122	1.75	2.10	1.03	0.077	0.585	7.19	1.36	---	---	1.76	1975
1976	---	---	0.094	4.58	0.780	4.44	0.538	0.116	0.078	0.074	---	---	1.32	1976
1977	---	---	0.086	0.441	0.157	0.026	0.886	0.278	1.46	0.645	---	---	0.505	1977
1978	---	---	0.165	2.58	0.539	0.418	0.242	0.063	0.289	0.823	---	---	0.809	1978
1979	---	---	0.087	3.21	7.13	1.20	0.146	0.090	0.109	0.081	---	---	1.50	1979
1980	---	---	0.098	0.784	0.204	0.237	0.204	0.388	0.376	0.314	---	---	0.325	1980
MEAN	---	---	0.138	2.11	2.23	0.958	0.328	0.129	0.578	0.319	---	---	0.845	MEAN

LOCATION - LAT 51 07 30 N DRAINAGE AREA, 142 km²
LONG 100 02 20 W REGULATED

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	25.0 B AT 16:20 CST ON APR 24	25.0 B ON APR 24	0.028B ON MAR 1	25 300	1957
1958	3.91 AT 08:00 CST ON JUL 6	2.94B ON APR 1	0 B ON MAR 1 *	6 700	1958
1959	7.93 AT 00:00 CST ON MAY 4	5.72 ON MAY 4	0 B ON MAR 1	15 900	1959
1960	41.9 AT 16:30 CST ON MAY 28	22.3 ON MAY 28	0 ON SEP 18	29 900	1960
1961	---	1.91A ON MAY 7	0 B ON MAR 1	3 400	1961
1962	---	4.38A ON MAY 30	0 B ON MAR 1	9 300	1962
1963	24.7 AT 21:00 CST ON JUN 18	7.90R ON APR 8	0 B ON MAR 1	17 400	1963
1964	---	8.33B ON APR 11	0 B ON MAR 1	10 300	1964
1965	---	7.48A ON MAY 7	0 B ON MAR 1	17 500	1965
1966	14.3 AT 01:00 CST ON MAY 5	9.57 ON MAY 5	0.006 ON SEP 22	16 500	1966
1967	---	6.97E ON MAY 16	0 B ON MAR 1	12 400	1967
1968	9.00 AT 21:35 CST ON JUL 1	5.55 ON JUL 2	0.018 ON AUG 14	9 860	1968
1969	76.5 AT 08:05 CST ON JUN 27	41.6 R ON JUN 27	0.001 ON SEP 18	18 800	1969
1970	26.5 AT 03:12 CST ON MAY 7	20.4 ON MAY 7	0.005 ON SEP 8	25 700	1970
1971	28.1 AT 15:18 CST ON JUN 5	17.3 ON JUN 5	0.018 ON AUG 28	18 300	1971
1972	9.37 AT 00:48 CST ON APR 22	7.36 ON APR 21	0 ON AUG 28	12 900	1972
1973	8.81 AT 20:00 CST ON OCT 3	6.91 ON OCT 3	0 ON JUL 23	10 200	1973
1974	36.5 B AT 12:15 CST ON APR 19	26.2 B ON APR 19	0 B ON MAR 1	41 300	1974
1975	114 AT 10:57 CST ON SEP 18 *	102 ON SEP 19 *	0 ON JUL 13	37 200	1975
1976	75.9 AT 22:00 CST ON JUN 13	32.8 ON JUN 14	0.012 ON OCT 27	27 900	1976
1977	22.0 AT 01:22 CST ON JUL 12	10.9 ON JUL 12	0.001 ON JUN 7	10 700	1977
1978	8.01 AT 20:47 CST ON APR 23	5.66 ON APR 23	0.012 ON AUG 5	12 900	1978
1979	44.7 AT 04:29 CST ON MAY 17	29.5 ON MAY 17	0.016 ON AUG 21	31 800	1979
1980	---	2.71R ON APR 4	0 E ON JUN 12	6 890	1980
MEAN				17 900	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX) E - ESTIMATED R - REVISED SINCE JAN 1 1986

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.37	1.97	2.52	0.944	0.239	2.13	1.05	---	---	---	1954
1955	---	---	---	2.80	3.76	2.79	0.331	0.089	0.021	0.062	---	---	---	1955
1956	---	---	0.198	1.56	3.01	3.01	1.54	0.240	0.186	0.142	---	---	---	1956
MEAN	---	---	0.198	1.84	2.91	2.77	0.938	0.193	0.779	0.418	---	---	---	MEAN

LOCATION - LAT 51 08 35 N DRAINAGE AREA, 138 km²
LONG 100 03 45 W NATURAL FLOW

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO 05LJ030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	13.9 ON SEP 29	0.1428 ON APR 1	---	1954
1955	---	21.0 ON JUN 15	0 ON SEP 4 *	---	1955
1956	---	36.2 ON JUN 19 *	0 ON JUL 14	---	1956
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO 05LJ030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.075	---	1962
1963	0.085	0.122	0.071	0.079	0.040	0.044	0.015	0.055	0.058	0.027	0.115	0.145	0.069	1963
1964	0.115	0.111	0.093	0.076	0.030	0.022	0.029	0.038	0.034	0.017	0.058	0.074	0.058	1964
1965	0.071	0.074	0.063	0.034	0.028	0.018	0.005	0.004	0.053	0.042	0.074	0.105	0.051	1965
1966	0.104	0.100	0.101	0.052	0.320	0.121	0.028	0.012	0.014	0.015	0.101	0.099	0.089	1966
1967	0.093	0.089	0.085	0.085	0.057	0.009	0.012	0.014	0.024	0.010	0.089	0.081	0.057	1967
1968	0.085	0.088	0.081	0.035	0.038	0.010	0.045	0.018	0.003	0.002	0.072	0.095	0.047	1968
1969	0.082	0.090	0.095	0.094	0.069	0.280	0.424	0.001	0.025	0.014	0.044	0.094	0.103	1969
1970	0.100	0.085	0.083	0.082	0.517	0.259	0.125	0.072	0.053	0.018	0.092	0.110	0.133	1970
1971	0.089	0.083	0.093	0.091	0.031	0.804	0.130	0.057	0.089	0.029	0.098	0.086	0.125	1971
1972	0.087	0.090	0.084	0.090	0.139	0.011	0.032	0.010	0.060	0.004	0.151	0.093	0.072	1972
1973	0.078	0.074	0.089	0.001	0.005	0.024	0.025	0.038	0.058	0.014	0.080	0.115	0.048	1973
1974	0.100	0.091	0.101	0.172	0.784	0.148	0.027	0.019	0.082	0.057	0.111	0.114	0.150	1974
1975	0.124	0.118	0.102	0.088	0.083	0.062	0.050	0.078	1.80	0.140	0.148	0.153	0.241	1975
1976	0.142	0.139	0.145	0.154	0.028	0.490	0.095	0.077	0.045	0.047	0.093	0.088	0.124	1976
MEAN	0.096	0.098	0.091	0.078	0.151	0.147	0.075	0.038	0.173	0.031	0.094	0.101	0.098	MEAN

LOCATION - LAT 50 55 30 N DRAINAGE AREA 11.7 km^2
LONG 100 02 40 W REGULATED SINCE 1962

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO 05LJ030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	0.484E ON APR 17	0 E ON JUL 6 *	2 190	1964
		0.150 ON MAY 8	0 E ON MAY 21	1 820	
1965	---	---	---	---	1965
1966	---	0.224 ON APR 30	0 E ON JUN 24	1 800	1966
1967	---	0.898 ON MAY 21	0.003 ON APR 8	2 800	1967
1968	---	0.246 ON MAY 17	0 E ON JUN 5	1 800	1968
1969	---	0.235 ON JUL 2	0.001 ON SEP 30	1 490	1969
		2.81 ON JUN 30	0 ON AUG 9	3 240	
1970	---	---	---	---	1970
1971	---	1.54 ON MAY 20	0.008 ON OCT 19	4 190	1971
1972	---	1.12 ON JUN 14	0.004 ON OCT 17	3 870	1972
1973	---	0.241 ON MAY 17	0 ON JUL 5	2 270	1973
1974	---	0.2278 ON SEP 5	0 ON APR 7	1 580	1974
		1.80 ON MAY 12	0.013E ON JUL 9	4 720	
1975	33.1 AT 12 00 CST ON SEP 19 *	22.9 ON SEP 19 *	0.001 ON AUG 24	7 580	1975
1976	---	3.94 ON JUN 15	0.002E ON JUN 4	3 930	1976
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 080	MEAN

ELGIN CREEK NEAR SOURIS - STATION NO. 05NG012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.177	0.425	0.088	0	0	0	0	0	---	---	0.085	1961
1962	---	---	0	1.25	0.085	0.128	0.048	0.019	0.035	0	---	---	0.192	1962
1963	---	---	0.106	0.221	0.002	0.023	0	0	0	0	---	---	0.044	1963
1964	---	---	0	0.535	0.145	0.001	0	0	0	0	---	---	0.084	1964
1965	---	---	0	2.75	0.043	0.015	1.39	0.077	0.189	0.068	---	---	0.562	1965
1966	---	---	0.483	0.461	0.127	0.059	0.008	0	0	0	---	---	0.139	1966
1967	---	---	0.011	0.702	0.130	0	0	0	0	0	---	---	0.104	1967
1969	---	---	0	2.62	0.107	0.005	0.338	0.022	0.002	0	---	---	0.381	1969
1970	---	---	0	4.19	0.932	0.042	0.350	0.016	0	0	---	---	0.882	1970
1971	---	---	0.001	0.525	0.096	0.326	0.140	0	0	0	---	---	0.134	1971
1972	---	---	1.77	0.287	0.088	0.009	0.001	0.080	0.003	0	---	---	0.282	1972
1973	---	---	B	0	0	0.027	0.229	0.059	0.042	0.017	---	---	0.047	1973
1974	---	---	B	8.50	0.795	0.065	0	0	0	0	---	---	1.15	1974
1975	---	---	0	4.09	1.08	0.173	0.015	0.135	0.303	0.141	---	---	0.733	1975
1976	---	---	0.006	11.6	0.252	0.253	0.031	0	0	0	---	---	1.49	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.008	1.99	0.055	0.006	0	0	0	0	---	---	0.252	1978
1979	---	---	0	1.72	0.550	0.046	0	0	0	0	---	---	0.286	1979
1980	---	---	0	0.309	0.001	0	0	0.192	B 0.088	0.080	---	---	0.084	1980
1981	---	0.379	0.121	0.021	0.007	0.028	0.029	0	B 0.001	0.001	---	---	0.026	1981
1982	---	---	0.027	4.68	0.129	0.031	0	0	B	0	---	---	0.597	1982
1983	---	---	0.035	2.44	0.045	0.005	0	0	B	0	---	---	0.309	1983
1984	---	---	0.021	0.017	0.126	0.001	0	0	B	0	---	---	0.021	1984
1985	---	---	3.49	0.940	0.005	0	0	0	B 0.009	0.012	---	---	0.561	1985
1986	---	---	0.858	0.470	1.07	0.006	0.001	0.006	B	0	---	---	0.304	1986
MEAN	---	0.379	0.284	2.03	B.238	0.050	0.103	0.024	0.027	0.013	---	---	0.342	MEAN

LOCATION - LAT 49 35 28 N DRAINAGE AREA 1 180 km²
LONG 100 14 05 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.91 AND 0 m³/s OCCURRED IN FEB

ELGIN CREEK NEAR SOURIS - STATION NO. 05NG012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---	2.06 ON APR 5	0B ON MAR 1 *	1 810	1961
1962	---	6.51 ON APR 17	0B ON MAR 1	4 070	1962
1963	---	0.909 ON APR 7	0B ON MAR 1	824	1963
1964	---	2.53 ON APR 9	0B ON MAR 1	1 780	1964
1965	---	17.3 ON APR 11	0B ON MAR 1	11 900	1965
1966	---	3.71 B ON MAR 31	0B ON MAR 1	2 940	1966
1967	---	1.85 ON APR 14	0B ON MAR 1	2 200	1967
1969	---	11.3 B ON APR 14	0B ON MAR 1	8 070	1969
1970	---	18.0 ON APR 27	0B ON MAR 1	14 500	1970
1971	---	1.49 B ON APR 9	0B ON MAR 1	2 840	1971
1972	---	9.12 B ON MAR 17	0B ON MAR 1	5 970	1972
1973	---	1.78 ON JUL 27	0B ON MAR 1	896	1973
1974	---	38.5 B ON APR 19	0B ON MAR 1	24 300	1974
1975	---	25.3 ON APR 29	0B ON MAR 1	15 500	1975
1976	---	54.4 B ON APR 10 *	0 ON JUL 22	31 500	1976
1977	---	0.0018 ON MAR 14	0B ON MAR 1	0.50	1977
1978	---	9.94 B ON APR 4	0B ON MAR 1	5 330	1978
1979	---	16.7 B ON APR 22	0B ON MAR 1	6 050	1979
1980	---	2.75 B ON APR 6	0B ON MAR 1	1 780	1980
1981	---	0.2158 ON MAR 1	0 ON MAY 21	555	1981
1982	35.9 B AT 17 06 CST ON APR 13 *	25.0 B ON APR 14	0B ON MAR 1	12 600	1982
1983	8.40 AT 21 03 CST ON APR 5	8.57 B ON APR 4	0B ON MAR 1	6 550	1983
1984	0.484 AT 13 00 CST ON MAY 7	0.469 ON MAY 7	0B ON MAR 1	439	1984
1985	34.4 AT 19 46 CST ON MAR 24	22.0 B ON MAR 25	0B ON MAR 1	11 900	1985
1986	15.8 AT 13 23 CST ON MAY 6	10.5 ON MAY 6	0B ON MAR 1	6 440	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 240	MEAN

ELM CREEK CHANNEL NO. 1 NEAR FANNYSTELLE - STATION NO 05DG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.053	7.28	0.437	0.147	0.004	0	0	0	---	---	0.972	1980
1981	---	---	0.978	3.09	0.107	0	0	0	0	0	---	---	0.516	1981
1982	---	---	0	2.81	1.80	2.20	0.178	3.49	0.034	0	---	---	1.26	1982
1984	---	---	0	2.07	0.091	0.549	0.022	0.005	0.012	0	---	---	0.337	1984
1985	---	---	0	9.78	0.884	0.235	0	0	0	0	---	---	1.31	1985
1986	---	---	0.024	4.01	2.57	0	0.314	0.249	0.380	0	---	---	0.837	1986
1987	---	---	0	15.7	0.808	0.003	0.052	0	0	0	---	---	2.16	1987
1988	---	---	0.190	0.322	0.022	0.005	0.163	4.98	0.614	0.016	---	---	0.795	1988
1989	---	---	0	9.46	2.87	1.03	2.92	1.44	0.014	0	---	---	2.20	1989
1970	---	---	0	15.5	5.12	0.820	0.044	0	0	0	---	---	2.76	1970
1971	---	---	0	5.08	0.356	0.070	0.080	0.008	0	0.053	---	---	0.693	1971
1972	---	---	0.411	5.54	0.121	0	0	0.019	0	0	---	---	0.748	1972
1973	---	---	0.637	0.020	0.013	0.010	0.157	0.194	0.025	0.043	---	---	0.139	1973
1974	---	---	0	18.4	11.9	0.389	0	0	0	0	---	---	3.81	1974
1975	---	---	0	3.82	0.883	0.108	---	---	---	---	---	---	---	1975
1976	---	---	0	10.4	0.055	0.091	0.001	0	0	0	---	---	1.30	1976
1977	---	---	0.001	0.280	0.301	0.191	0.191	0	0.859	0	---	---	0.226	1977
MEAN	---	---	0.135	6.73	1.70	0.331	0.258	0.649	0.121	0.007	---	---	1.26	MEAN

LOCATION - LAT 49 48 42 N DRAINAGE AREA, 859 km²
LONG 97 46 38 W REGULATED

ELM CREEK CHANNEL NO. 1 NEAR FANNYSTELLE - STATION NO. 05DG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	18.0 B ON APR 7	0.0 ON MAR 1 *	20 600	1980
1981	---	14.0 B ON APR 8	0.0 ON MAR 1	10 900	1981
1982	---	27.5 ON AUG 23	0.0 ON MAR 1	26 700	1982
1984	---	11.6 ON APR 15	0.0 ON MAR 1	7 130	1984
1985	---	56.6 ON APR 14	0.0 ON MAR 1	27 700	1985
1986	---	27.3 ON MAY 5	0.0 ON MAR 1	15 800	1986
1987	---	57.8 ON APR 20	0.0 ON MAR 1	45 600	1987
1988	---	36.5 ON AUG 24	0.0 ON MAR 1	15 800	1988
1989	---	42.8 B ON APR 10	0.0 ON MAR 1	46 800	1989
1970	---	69.1 ON APR 25	0.0 ON MAR 1	58 300	1970
1971	---	36.2 ON APR 11	0.0 ON MAR 1	14 700	1971
1972	29.2 B AT 04:20 CST ON APR 15	26.7 B ON APR 15	0.0 ON MAR 1	15 900	1972
1973	---	2.548 ON MAR 23	0.0 ON MAR 1	2 850	1973
1974	---	78.0 B ON APR 18 *	0.0 ON MAR 1	80 700	1974
1975	29.4 AT 02:15 CST ON APR 29	21.3 ON APR 29	0.0 ON MAR 1	---	1975
1976	89.5 B AT 02:00 CST ON APR 8 *	57.8 B ON APR 7	0.0 ON MAR 1	27 500	1976
1977	9.77 AT 23:13 CST ON SEP 9	4.42 ON SEP 10	0.0 ON MAR 1	4 800	1977
				26 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK - STATION NO. 05DG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	3.22	0.303	0.096	0	0	0	0	---	---	0.893	1980
1981	---	---	0.777	1.30	0.085	0	0	0	0	0	---	---	0.633	1981
1982	---	---	0	1.52	0.855	1.34	0.114	1.41	0.021	0.035	---	---	0.889	1982
1983	---	---	0.744	1.09	0.874	1.70	0.070	0	0	0	---	---	1.10	1983
1984	---	---	0	0.719	0.075	0.346	0	0	0	0	---	---	0.281	1984
1985	---	---	0	4.81	0.386	0.215	0	0	0	0	---	---	1.33	1985
1986	---	---	0	0.933	1.86	0.011	0.282	0.118	0.088	0	---	---	0.853	1986
1987	---	---	0	7.22	0.612	0	0	0	0	0	---	---	1.93	1987
1988	---	---	0.109	0.187	0.046	0.002	0.078	1.88	0.356	0.012	---	---	0.086	1988
1989	---	---	0	5.58	1.83	0.838	2.37	0.380	0.005	0	---	---	1.88	1989
1970	---	---	0	9.19	4.50	0.407	0.017	0	0.002	0	---	---	3.50	1970
1971	---	---	0	2.00	0.229	0.045	0.043	0.002	0	0.023	---	---	0.580	1971
1972	---	---	0.630	2.41	0.114	0	0	0.020	0	0	---	---	0.782	1972
1973	---	---	0.585	0.014	0.012	0.003	---	---	---	---	---	---	0.156	1973
1974	---	---	0	10.4	8.41	0.577	---	---	---	---	---	---	4.84	1974
1975	---	---	0	1.81	0.337	0.148	0.070	0.002	0.001	0	---	---	0.587	1975
1976	---	---	0	5.81	0.045	0.082	0	0	0	---	---	---	1.45	1976
1977	---	---	0	0.054	0.043	0.017	---	---	---	---	---	---	0.031	1977
1978	---	---	0.003	4.05	0.778	0.230	---	---	---	---	---	---	1.25	1978
1979	---	---	0	10.9	9.82	1.11	---	---	---	---	---	---	5.45	1979
1980	---	---	0	0.817	0	0	---	---	---	---	---	---	0.152	1980
1981	---	0.008	0.047	0.005	0	0	---	---	---	---	---	---	0.013	1981
1982	---	---	0.072	0.576	0	0	---	---	---	---	---	---	0.180	1982
1983	---	---	0.877	2.86	0.044	0.102	---	---	---	---	---	---	0.862	1983
1984	---	---	0.059	0.036	0.141	0.323	---	---	---	---	---	---	0.139	1984
1985	---	---	2.84	0.711	0.009	0	---	---	---	---	---	---	0.899	1985
1986	---	---	2.88	5.99	7.40	0.021	---	---	---	---	---	---	4.09	1986
MEAN	---	0.008	0.357	3.11	1.42	0.274	0.303	0.254	0.030	0.005	---	---	1.28	MEAN

LOCATION - LAT 49 48 42 N DRAINAGE AREA, 874 km²
LONG 97 58 57 W REGULATED

REMARKS - AN EQUATION TO GENERATE SOME ANNUAL FLOW VOLUME IS AVAILABLE

ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK - STATION NO. 05OG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	8.81 ON APR 11	0B ON MAR 1 *	9 420	1980
1981	---	5.35 B ON APR 1	0B ON MAR 1	5 610	1981
1982	---	19.3 B ON APR 20	0B ON MAR 1	9 180	1982
1983	---	10.7 ON JUN 4	0B ON MAR 1	11 500	1983
1984	---	4.39 ON APR 15	0B ON MAR 1	2 960	1984
1985	---	33.4 ON APR 13	0B ON MAR 1	14 100	1985
1986	---	13.8 ON MAY 5	0B ON MAR 1	6 850	1986
1987	---	25.1 ON APR 20	0B ON MAR 1	20 300	1987
1988	---	0.7088 ON MAR 29	0B ON MAR 1	902	1988
1989	---	26.6 ON APR 12	0B ON MAR 1	21 100	1989
1970	---	43.0 ON APR 25	0B ON MAR 1	37 000	1970
1971	---	13.4 ON APR 11	0B ON MAR 1	5 900	1971
1972	---	13.0 B ON APR 14	0B ON MAR 1	8 250	1972
1973	---	1.61 B ON MAR 22	0B ON MAR 1	1 650	1973
1974	---	47.0 B ON APR 17	0B ON MAR 1	51 000	1974
1975	---	8.89 B ON APR 14	0B ON MAR 1	5 980	1975
1976	---	38.8 B ON APR 6	0B ON MAR 1	15 400	1976
1977	---	0.2418 ON APR 9	0B ON MAR 1	329	1977
1978	---	19.2 B ON APR 10	0B ON MAR 1	13 200	1978
1979	---	62.1 A ON APR 23 *	0B ON MAR 1	57 500	1979
1980	---	2.30 B ON APR 10	0B ON MAR 1	1 600	1980
1981	---	0.0858 ON MAR 18	0 ON APR 10	140	1981
1982	3.82 AT 19:57 CST ON APR 14	2.65 B ON APR 13	0B ON MAR 1	1 880	1982
1983	17.8 B AT 02:15 CST ON APR 4	14.3 B ON APR 4	0B ON MAR 1	10 100	1983
1984	3.47 AT 02:46 CST ON JUN 22	2.88 ON JUN 22	0B ON MAR 1	1 470	1984
1985	---	16.1 B ON MAR 19	0B ON MAR 1	9 470	1985
1986	41.7 AT 11:45 CST ON MAY 6 *	39.9 ON MAY 6	0B ON MAR 1	43 100	1986
				13 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05OG006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.84	0.145	0.050	0.003	0	0	0	---	---	0.501	1980
1981	---	---	0.284	0.789	0.029	0	0	0	0	0	---	---	0.264	1981
1982	---	---	0	0.797	0.385	0.187	0.008	0.676	0.005	0	---	---	0.335	1982
1984	---	---	0	0.484	0.018	0	0	0	0	0	---	---	0.123	1984
1985	---	---	0	2.67	0.228	0.104	0	0	0	0	---	---	0.738	1985
1986	---	---	0.008	0.586	0.759	0.002	0.133	0.019	0.043	0	---	---	0.340	1986
1987	---	---	0	4.51	0.568	0.002	0	0	0	0	---	---	1.25	1987
1988	---	---	0.026	0.186	0.016	0.002	0.039	1.08	0.244	0.015	---	---	0.057	1988
1989	---	---	0	3.16	1.07	0.435	1.83	0.252	0.002	0	---	---	1.16	1989
1970	---	---	0	4.76	2.69	0.181	0.008	0	0	0	---	---	1.85	1970
1971	---	---	0	1.18	0.122	0.009	0.097	0.003	0	0.024	---	---	0.323	1971
1972	---	---	0.394	1.40	0.078	0	0	0	0	0	---	---	0.484	1972
1973	---	---	0.324	0.005	0.008	0.001	0.004	0.005	0.002	0.005	---	---	0.086	1973
1974	---	---	0	6.27	6.88	0.297	0	0	0	0	---	---	3.37	1974
1975	---	---	0	0.997	0.255	0.031	---	---	---	---	---	---	0.317	1975
1976	---	---	0	2.86	0.041	0.037	---	0	0	---	---	---	0.874	1976
1977	---	---	0.001	0.059	0	0.012	---	---	---	---	---	---	0.018	1977
1978	---	---	0	1.41	0.287	0.133	---	---	---	---	---	---	0.451	1978
1979	---	---	0	5.57	7.22	0.780	---	---	---	---	---	---	3.40	1979
1980	---	---	0	0.325	0	0	---	---	---	---	---	---	0.080	1980
1981	---	0.006	0.003	0	0	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.049	0.278	0	0	---	---	---	---	---	---	0.081	1982
1983	---	---	0.387	1.29	0	0.039	---	---	---	---	---	---	0.426	1983
1984	---	---	0.040	0.022	0.055	0	---	---	---	---	---	---	0.030	1984
1985	---	---	1.58	0.270	0.002	0	---	---	---	---	---	---	0.469	1985
1986	---	---	2.10	3.89	4.46	0.004	---	---	---	---	---	---	2.52	1986
MEAN	---	0.006	0.188	1.76	0.982	0.089	0.152	0.136	0.020	0.003	---	---	0.751	MEAN

LOCATION - LAT 49 47 54 N LONG 98 00 20 W DRAINAGE AREA 484 km^2 REGULATED

REMARKS - AN EQUATION TO GENERATE SOME ANNUAL FLOW VOLUME IS AVAILABLE

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO 05OG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---				
1961	---	4.96 ON APR 5	08 ON MAR 1 *	5 280	1960
1962	---	2.86 B ON MAR 31	08 ON MAR 1	2 780	1961
		7.62 B ON APR 20	08 ON MAR 1	3 530	1962
1964	---	1.70 B ON APR 11	08 ON MAR 1	1 300	1964
1965	---				
1966	---	15.8 ON APR 13	08 ON MAR 1	7 780	1965
1967	---	6.80 ON MAY 5	08 ON MAR 1	3 580	1966
1968	---	20.5 ON APR 21	08 ON MAR 1	13 200	1967
1969	---	2.38 ON APR 23	08 ON MAR 1	599	1968
		10.7 ON APR 11	08 ON MAR 1	12 200	1969
1970	---				
1971	---	24.7 ON APR 26	08 ON MAR 1	20 500	1970
1972	---	7.11 B ON APR 10	08 ON MAR 1	3 400	1971
1973	---	6.85 B ON APR 15	08 ON MAR 1	4 900	1972
1974	---	1.10 B ON MAR 22	08 ON MAR 1	807	1973
		41.6 E ON MAY 21 *	08 ON MAR 1	35 500	1974
1975	---				
1976	---	4.96 ON APR 29	08 ON MAR 1	3 340	1975
1977	---	11.7 B ON APR 6	08 ON MAR 1	7 110	1976
1978	---	0.3408 ON APR 13	08 ON MAR 1	188	1977
1979	---	6.74 B ON APR 10	08 ON MAR 1	4 750	1978
		23.4 ON APR 23	08 ON MAR 1	35 800	1979
1980	---				
1981	---	1.08 B ON APR 8	08 ON MAR 1	843	1980
1982	1.858 AT 00:00 CST ON APR 13	0.0118 ON MAR 1	08 ON MAR 15	7 52	1981
1983	---	1.28 B ON APR 13	08 ON MAR 1	851	1982
1984	1.04 AT 05:08 CST ON MAY 7	6.07 B ON APR 4	08 ON MAR 1	4 490	1983
		0.752 ON MAY 7	08 ON MAR 1	311	1984
1985	---				
1986	19.2 AT 11:04 CST ON MAY 6 *	7.26 B ON MAR 19	08 ON MAR 1	4 930	1985
		18.3 ON MAY 6	08 ON MAR 1	27 800	1986
				7 910	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EPINETTE CREEK NEAR CARBERRY - STATION NO 05MH007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.031	0.380	0.623	---	---	---	---	---	---	---	---	1981
1983	---	---	0.076	0.171	0.382	0.808	0.180	0.042	0.024	0.034	---	---	0.213	1983
1984	---	---	0.014	0.154	0.532	0.177	0.119	0.024	0.083	0.033	---	---	0.142	1984
1985	---	---	0.014	1.03	1.21	1.04	0.090	0.085	0.315	0.229	---	---	0.495	1985
1986	---	---	0.056	1.80	1.31	0.315	0.086	0.029	0.013	0.018	---	---	0.450	1986
1987	---	---	0.022	0.822	0.541	0.077	0.025	0.009	0.005	0.014	---	---	0.164	1987
1988	---	---	0.024	0.024	0.187	0.074	0.023	0.102	0.384	0.284	---	---	0.132	1988
1989	---	---	0.019	1.49	1.48	0.320	1.30	0.262	0.045	0.048	---	---	0.618	1989
1970	---	---	0.040	0.833	2.78	0.888	0.311	0.072	0.035	0.055	---	---	0.801	1970
1971	---	---	0.018	0.807	0.777	0.766	0.724	0.143	0.006	0.077	---	---	0.377	1971
1972	---	---	0.048	0.838	0.895	0.437	0.188	0.151	0.096	0.084	---	---	0.292	1972
1973	---	---	0.030	0.075	0.256	0.201	0.082	0.024	0.037	0.028	---	---	0.091	1973
1974	---	---	0	0.857	2.88	0.847	0.043	0.019	0.022	0.028	---	---	0.583	1974
1975	---	---	0.022	0.150	0.950	0.580	0.130	0.043	0.072	0.048	---	---	0.249	1975
1976	---	---	0.034	3.20	0.989	0.204	0.045	0.017	0.012	0.017	---	---	0.559	1976
1977	---	---	0.038	0.024	0.021	0.013	0.020	0.004	0	0	---	---	0.015	1977
1978	---	---	0.002	1.38	0.789	0.634	0.477	0.004	0.023	0.014	---	---	0.409	1978
1979	---	---	0.028	0.888	3.16	0.841	0.086	0.024	0.018	0.008	---	---	0.805	1979
1980	---	---	0.014	0.083	0.071	0.035	0.020	0.098	0.025	0.048	---	---	0.047	1980
1981	---	---	0.043	0.040	0.009	0.008	0.001	0.001	0.001	0.001	---	---	0.013	1981
1982	---	---	0	0.451	0.158	0.128	0.057	0.004	0.003	0.011	---	---	0.101	1982
1983	---	---	0	0.847	1.12	0.810	0.093	0.005	0.004	0.003	---	---	0.321	1983
1984	---	---	0	0.013	0.018	0.012	0.002	0.001	0.008	0.003	---	---	0.007	1984
1985	---	---	0.052	0.139	0.092	0.030	0.005	0.157	0.145	0.215	---	---	0.104	1985
1986	---	---	0.096	2.18	3.83	0.280	0.353	0.029	0.024	0.049	---	---	0.857	1986
MEAN	---	---	0.029	0.703	0.997	0.375	0.181	0.055	0.057	0.055	---	---	0.309	MEAN

LOCATION - LAT 49 44 28 N
LONG 99 19 50 W
DRAINAGE AREA, 398 km^2
NATURAL FLOW

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	---	---	1961
1963	---	1.23 ON JUN 24	0 B ON MAR 1 *	4 500	1963
1964	---	0.988 ON MAY 11	0.014B ON MAR 1	3 000	1964
1965	---	2.40 ON APR 20	0.014B ON MAR 1	10 500	1965
1966	---	3.60 ON APR 8	0.006 ON SEP 18	9 520	1966
1967	---	1.52 ON APR 26	0.003 ON SEP 2	3 460	1967
1968	---	0.532 ON SEP 8	0.003 ON JUL 11	2 800	1968
1969	---	3.79 ON APR 19	0.014B ON MAR 1	13 100	1969
1970	---	6.00 ON MAY 1	0.021 ON SEP 20	12 700	1970
1971	---	1.78 ON APR 21	0 ON APR 19	7 970	1971
1972	---	1.38 ON APR 23	0.014 ON SEP 11	6 180	1972
1973	---	0.314 ON MAY 9	0.005 ON JUL 23	1 930	1973
1974	---	3.71 ON MAY 21	0 B ON MAR 1	11 900	1974
1975	---	1.35 ON MAY 7	0.001 ON AUG 6	5 260	1975
1976	---	5.72 ON APR 18	0.006 ON AUG 13	11 800	1976
1977	---	0.048B ON MAR 29	0 ON SEP 10	317	1977
1978	---	2.74 ON APR 14	0 B ON MAR 1	8 680	1978
1979	---	6.40 ON MAY 1	0.005 ON OCT 26	12 800	1979
1980	---	0.602 ON AUG 21	0 ON APR 22	988	1980
1981	---	0.101A ON APR 6	0 B ON OCT 22	277	1981
1982	---	1.89 A ON APR 20	0 B ON MAR 1	2 150	1982
1983	2.69 B AT 01:56 CST ON APR 15	2.01 B ON APR 15	0 B ON MAR 1	6 780	1983
1984	1.22 AT 16:13 CST ON SEP 6	0.085 ON JUN 16	0 B ON MAR 1	145	1984
1985	0.586 AT 07:09 CST ON AUG 23	0.555 ON AUG 23	0 ON AUG 2	2 210	1985
1986	8.36 AT 18:09 CST ON MAY 6 *	8.22 ON MAY 6 *	0.007 ON SEP 4	18 100	1986
				6 540	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	220	228	211	220	209	186	---	1912
1913	182	184	189	196	207	229	252	236	228	197	186	183	201	1913
1914	168	148	151	160	183	184	185	148	138	123	113	102	150	1914
1915	85.8	82.7	84.3	83.2	76.0	83.9	79.7	70.3	57.7	60.4	54.2	50.1	73.9	1915
1916	43.8	44.0	45.3	50.9	58.1	67.3	86.6	77.2	59.8	64.3	64.3	56.9	60.1	1916
1917	54.1	54.6	61.6	66.7	66.9	69.7	81.1	73.2	70.7	66.3	66.8	58.3	65.9	1917
1918	58.8	59.3	63.7	66.3	67.7	78.7	78.1	84.1	71.0	72.9	70.0	65.1	69.8	1918
1919	62.7	59.6	55.7	59.7	70.8	71.8	70.3	54.0	46.5	34.6	---	---	---	1919
1920	---	---	---	---	44.3	50.3	44.9	39.0	33.4	---	---	---	---	1920
1955	---	---	---	---	---	---	---	---	---	207	193	200	---	1955
1956	182	180	181	173	189	210	199	178	166	156	147	151	178	1956
1957	149	141	133	135	141	142	149	126	114	108	90.7	94.0	127	1957
1958	90.1	86.9	82.9	80.0	75.4	81.5	80.5	44.2	38.5	13.6	20.0	11.6	55.2	1958
1959	11.5	7.87	9.11	12.4	16.5	21.2	38.4	44.5	16.1	12.0	49.2	42.8	23.7	1959
1960	7.57	53.1	58.5	62.5	78.7	83.8	71.5	61.8	48.4	36.1	21.4	0	48.6	1960
1961	0	0	0	0	0	0	38.7	16.0	0.850	0	55.7	3.23	9.56	1961
1962	3.28	3.41	2.80	2.41	1.99	1.79	1.88	2.49	2.86	2.09	1.76	1.68	2.36	1962
1963	1.59	1.59	1.71	1.76	1.88	7.58	68.8	39.6	2.88	2.13	1.70	2.04	11.3	1963
1964	2.15	2.04	2.08	2.01	1.89	1.90	1.80	1.84	1.80	1.35	1.22	1.07	1.75	1964
1965	1.15	1.24	1.38	1.77	2.18	3.01	2.75	2.49	2.10	1.41	2.16	1.97	1.97	1965
1966	2.28	2.08	2.61	3.30	8.74	112	110	87.5	47.6	20.1	4.45	5.70	34.1	1966
1967	6.24	6.54	45.2	115	234	250	190	152	31.0	4.34	3.58	44.3	90.7	1967
1968	88.3	87.1	95.7	61.9	42.0	101	111	83.4	79.5	83.1	96.0	133	88.3	1968
1969	88.2	88.2	88.8	86.5	105	88.1	61.6	47.4	41.4	18.2	13.1	7.33	61.8	1969
1970	6.85	7.33	34.5	87.3	122	255	213	185	111	50.7	2.22	0	86.7	1970
1971	0	5.52	84.0	184	239	226	183	94.7	54.3	54.2	72.1	91.7	108	1971
1972	80.8	83.6	88.8	102	148	228	128	26.1	2.49	8.33	48.0	49.0	82.6	1972
1973	46.5	47.9	7.73	6.78	7.45	58.9	151	84.3	53.6	54.0	68.3	74.9	54.4	1973
1974	72.6	74.5	72.8	177	287	321	272	200	158	148	131	130	172	1974
1975	114	77.0	71.7	88.8	163	242	207	121	173	209	196	171	154	1975
1976	153	139	134	204	318	317	278	210	104	20.7	7.56	3.90	158	1976
1977	4.29	4.68	4.58	3.48	6.03	101	189	24.6	15.4	79.2	82.6	82.6	50.2	1977
1978	92.7	89.9	82.5	87.0	56.0	82.7	44.7	20.9	18.0	19.2	24.7	23.7	52.4	1978
1979	25.0	25.8	37.6	140	306	330	301	240	105	117	112	105	155	1979
1980	108	108	105	98.9	56.3	23.8	9.14	10.4	68.1	59.6	54.2	53.1	62.7	1980
1981	51.4	50.2	30.2	18.9	16.6	15.1	23.5	21.4	19.2	18.4	17.0	16.2	24.7	1981
1982	15.8	15.8	16.8	17.9	18.1	18.3	18.8	20.4	14.9	22.3	9.76	8.42	16.6	1982
1983	8.89	9.46	9.97	12.5	74.8	113	154	134	54.3	49.7	49.8	36.7	59.3	1983
1984	36.1	33.8	33.6	34.5	38.8	72.9	180	113	31.2	49.1	35.8	54.3	58.0	1984
1985	55.6	59.3	82.3	117	117	118	70.4	30.6	45.8	86.1	82.4	82.2	79.0	1985
1986	78.5	74.5	73.1	87.8	262	269	246	122	45.7	52.1	59.3	63.6	120	1986
MEAN	58.9	58.1	60.9	76.0	101	120	121	87.9	64.6	65.3	64.6	62.8	77.0	MEAN

LOCATION - LAT. 51 38 00 N DRAINAGE AREA, 80 100 km^2
LONG 98 42 15 W REGULATED SINCE 1934

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	326 ON SEP 9	142 B ON JAN 20	E 340 000	1914
		274 ON MAY 20	90.9 B ON DEC 24	4 740 000	
1915	---	112 B ON JAN 5	38.8 ON SEP 18	2 330 000	1915
1916	---	118 ON JUL 19	30.0 ON SEP 14	1 900 000	1916
1917	---	102 ON JUL 26	38.5 ON JUN 15	2 080 000	1917
1918	---	102 ON JUN 20	38.5 ON NOV 9	2 200 000	1918
1919	---	103 ON JUL 8	27.1 ON OCT 10	---	1919
1920	---	---	---	---	1920
1955	---	---	---	---	1955
1956	---	227 ON JUN 7	135 ON OCT 9	5 610 000	1956
1957	---	183 ON JUL 24	78.5 ON NOV 23	4 000 000	1957
1958	---	93.4 ON JAN 5	7.83 ON OCT 10	1 740 000	1958
1959	---	70.8 ON JUL 24	3.81 ON OCT 8	747 000	1959
1960	---	86.6 ON JUN 27	0 ON NOV 28 *	1 540 000	1960
1961	---	151 ON NOV 22	0 ON JAN 1	301 000	1961
1962	---	6.46 ON AUG 27	1.19 ON JUN 29	74 500	1962
1963	---	109 E ON JUL 18	1.51 ON NOV 13	355 000	1963
1964	---	2.358 ON JAN 28	1.06 B ON DEC 11	55 200	1964
1965	---	4.11 ON JUN 19	0.130 ON OCT 9	82 100	1965
1966	147 AT 20:10 CST ON JUL 4	130 ON JUN 11	1.22 B ON FEB 13	1 070 000	1966
1967	362 AT 19:20 CST ON JUN 3	323 ON JUN 3	3.26 ON NOV 12	2 880 000	1967
1968	231 B AT 08:00 CST ON DEC 6	221 B ON DEC 6	5.41 ON MAY 10	2 820 000	1968
1969	138 AT 13:57 CST ON MAY 6	131 ON MAY 6	5.32 ON OCT 9	1 950 000	1969
1970	385 AT 13:27 CST ON JUL 1 *	334 ON JUL 1	0 B ON NOV 15	2 730 000	1970
1971	320 AT 09:04 CST ON MAY 28	280 ON MAY 28	0 B ON JAN 1	3 400 000	1971
1972	317 AT 01:43 CST ON JUN 14	258 ON JUN 13	0.861 ON OCT 18	2 610 000	1972
1973	225 AT 18:18 CST ON JUL 22	206 ON JUL 23	4.96 ON MAY 13	1 720 000	1973
1974	368 AT 18:18 CST ON JUN 26	351 ON JUN 6 *	49.3 ON NOV 14	5 420 000	1974
1975	351 AT 14:09 CST ON JUN 28	309 ON JUN 27	54.1 ON AUG 17	4 880 000	1975
1976	388 AT 10:45 CST ON MAY 18	345 ON MAY 18	3.85 B ON DEC 7	4 980 000	1976
1977	270 AT 18:41 CST ON JUN 25	249 ON JUN 22	2.25 ON MAY 2	1 580 000	1977
1978	---	99.1 B ON JAN 8	8.38 ON OCT 6	1 850 000	1978
1979	---	351 ON JUN 6	11.8 ON SEP 8	4 880 000	1979
1980	116 AT 20:42 CST ON JAN 15	114 B ON JAN 1*	7.05 ON AUG 28	1 980 000	1980
1981	86.0 AT 08:56 CST ON JAN 3	52.0 B ON JAN 1	8.83 ON JUN 15	779 000	1981
1982	107 AT 17:32 CST ON OCT 13	92.9 ON OCT 13	5.72 E ON NOV 4	524 000	1982
1983	184 AT 00:23 CST ON JUL 17	176 ON JUL 16	5.12 ON NOV 28	1 870 000	1983
1984	200 AT 08:57 CST ON JUN 30	182 ON JUN 30	8.93 ON APR 27	1 830 000	1984
1985	158 AT 18:25 CST ON JUN 8	139 ON JUN 8	21.0 ON AUG 17	2 490 000	1985
1986	331 AT 11:50 CST ON JUN 2	310 ON MAY 15	19.8 ON NOV 8	3 780 000	1986
				2 430 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.083	0.137	0.017	0.008	0.012	0.026	0.027	0.310	---	---	0.075	1968
1969	---	---	0	1.18	1.29	0.830	0.061	0.024	0	0.453	---	---	0.454	1969
1970	---	---	0	0.481	0.438	0.471	0.351	0	0	0.217	---	---	0.243	1970
1971	---	---	0	0.282	0.082	0.008	0.007	0	0	0.056	---	---	0.051	1971
1972	---	---	0	0.450	0.024	0	0	0	0.002	0	---	---	0.060	1972
1973	---	---	0.089	0.004	0	0.171	0	0.070	0.419	1.03	---	---	0.224	1973
1974	---	---	0	5.82	3.75	1.92	1.58	0.838	0.902	1.57	---	---	2.04	1974
1975	---	---	0	0.521	0.437	0.272	0.187	0.343	0.402	0.808	---	---	0.343	1975
1976	---	---	0	3.15	1.80	1.06	0.802	0.228	0.049	0	---	---	0.888	1976
1977	---	---	0.002	0.044	0.002	0.246	0.313	0.244	1.07	0.889	---	---	0.324	1977
1978	---	---	0	2.87	1.51	1.11	0.847	0.506	0.444	0.236	---	---	0.833	1978
1979	---	---	0	1.75	2.74	2.02	1.02	0.567	0.418	0.289	---	---	1.10	1979
1980	---	---	0	0.634	0.543	0.055	0.160	0.011	0.022	0.025	---	---	0.181	1980
1981	---	---	0.097	0.021	0.003	0.018	0.018	0.201	0.526	0.079	---	---	0.118	1981
1982	---	---	0.143	1.63	0.894	0.546	0.234	0.133	0.103	1.02	---	---	0.585	1982
1983	---	---	0.005	1.57	1.28	0.741	0.925	0.058	0	0.013	---	---	0.572	1983
1984	---	---	0.035	0.110	0.010	0.019	0.001	0	0	0.026	---	---	0.025	1984
1985	---	---	0.178	0.287	0.006	0.001	0.002	0.067	0.010	0.022	---	---	0.069	1985
1986	---	---	0.427	1.71	1.61	0.988	0.441	0.341	0.019	0.009	---	---	0.589	1986
MEAN	---	---	0.055	1.19	0.869	0.540	0.355	0.192	0.232	0.351	---	---	0.471	MEAN

LOCATION - LAT 50 42 11 N
LONG 97 01 03 W
DRAINAGE AREA, 832 km^2
REGULATED SINCE 1985

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1979

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	0.895 ON OCT 10	0B ON MAR 1 *	1 580	1968
1969	---	8.86 ON APR 12	0B ON MAR 1	9 590	1969
1970	---	2.08 ON APR 18	0B ON MAR 1	5 150	1970
1971	---	1.83 ON APR 19	0B ON MAR 1	1 090	1971
1972	---	3.26 B ON APR 15	0B ON MAR 1	1 280	1972
1973	---	4.36 ON OCT 12	0B ON MAR 1	4 760	1973
1974	---	16.9 ON APR 20 *	0B ON MAR 1	43 100	1974
1975	---	1.91 B ON APR 21	0B ON MAR 1	7 280	1975
1976	---	5.97 ON APR 9	0B ON MAR 1	18 400	1976
1977	---	5.64 ON SEP 10	0B ON MAR 1	6 860	1977
1978	---	5.84 ON APR 18	0B ON MAR 1	19 800	1978
1979	---	6.58 ON APR 21	0B ON MAR 1	23 200	1979
1980	---	1.86 ON APR 11	0B ON MAR 1	3 820	1980
1981	---	2.70 A ON SEP 10	0B ON MAR 1	2 520	1981
1982	---	4.74 B ON APR 15	0B ON MAR 1	12 400	1982
1983	---	4.82 B ON APR 5	0B ON MAR 1	12 100	1983
1984	0.877 AT 20:00 CST ON APR 3	0.493A ON APR 3	0B ON MAR 1	525	1984
1985	2.39 B AT 08:36 CST ON APR 5	1.35 B ON MAR 29	0B ON MAR 1	1 460	1985
1986	8.07 B AT 20:15 CST ON MAR 31 *	5.57 B ON APR 1	0B ON MAR 1	14 800	1986
				9 970	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISH LAKE DRAIN NEAR MELEB - STATION NO. 05SB004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.132	1.16	0.502	0.079	0.024	0.001	0.435	---	---	0.283	1969
1970	---	---	0	0.004	0.328	0.567	0.564	0.002	0	0.243	---	---	0.214	1970
MEAN	---	---	0	0.068	0.745	0.535	0.322	0.013	0.001	0.339	---	---	0.254	MEAN

LOCATION - LAT 50 44 46 N DRAINAGE AREA, 526 km^2
LONG 97 19 06 W REGULATED

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1979

FISH LAKE DRAIN NEAR MELEB - STATION NO. 05SB004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	2.21E ON MAY 15 *	0B ON MAR 1 *	5 200	1969
1970	---	1.33 ON JUN 26	0B ON MAR 1	4 530	1970
				5 370	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	1.58	0.917	0.388	0.223	0.158	0.191	0.261	0.242	0.129	---	1961
1962	0.051	0.055	0.055	3.88	0.781	0.764	0.347	0.388	0.362	0.421	0.389	0.259	0.643	1962
1963	0.069	0.021	0.381	17.9	4.10	18.9	3.06	1.31	0.891	0.495	0.418	0.290	3.96	1963
1964	0.238	0.213	0.231	4.00	4.15	1.02	0.771	0.713	0.624	0.651	0.556	0.350	1.13	1964
1965	0.278	0.184	0.156	8.10	1.85	2.38	1.02	0.501	0.489	0.475	0.436	0.392	1.35	1965
1966	0.317	0.277	0.311	7.58	5.57	1.05	0.509	0.306	0.236	0.282	0.245	0.241	1.41	1966
1967	0.217	0.185	0.236	9.18	2.50	0.804	0.491	0.390	0.232	0.363	0.317	0.274	1.26	1967
1968	0.183	0.175	0.642	4.07	1.84	1.80	0.970	0.596	0.889	0.664	0.541	0.310	1.05	1968
1969	0.257	0.300	0.286	8.17	1.10	1.30	0.630	4.61	1.48	2.39	1.01	0.470	1.83	1969
1970	0.355	0.315	0.291	12.3	7.98	1.83	0.745	0.330	0.353	0.334	0.318	0.217	2.12	1970
1971	0.153	0.088	0.169	5.93	0.840	0.462	0.337	0.233	0.239	0.292	0.262	0.216	0.764	1971
1972	0.141	0.100	0.139	11.2	1.73	0.546	0.337	0.300	0.219	0.244	0.193	0.105	1.26	1972
1973	0.057	0.067	1.03	0.517	0.349	3.14	0.409	0.268	0.532	1.72	0.709	0.432	0.771	1973
1974	0.311	0.371	0.369	32.1	28.1	5.32	0.891	0.389	0.390	0.365	0.361	0.274	5.85	1974
1975	0.201	0.186	0.233	5.59	1.11	0.775	0.552	14.1	16.1	5.35	2.34	0.888	4.04	1975
1976	0.652	0.540	0.481	46.8	5.01	1.27	0.593	0.344	0.239	0.251	0.235	0.110	4.74	1976
1977	0.078	0.075	0.241	0.720	0.552	0.860	0.778	0.280	0.495	0.595	0.471	0.319	0.440	1977
1978	0.241	0.211	0.264	12.5	1.87	1.48	0.843	0.432	0.462	0.348	0.317	0.304	1.81	1978
1979	0.185	0.158	0.228	28.9	19.1	4.46	0.823	0.490	0.418	0.416	0.343	0.273	4.65	1979
1980	0.211	0.249	0.223	5.12	0.486	0.252	0.250	0.908	1.13	0.940	0.770	0.503	0.915	1980
1981	0.383	0.473	1.94	1.75	1.08	2.23	0.550	0.770	1.24	2.92	3.86	0.714	1.49	1981
1982	0.388	0.312	0.601	16.7	3.86	1.88	1.52	0.655	0.483	0.819	0.818	0.579	2.35	1982
1983	0.280	0.237	0.274	12.7	1.27	2.97	0.782	0.338	0.236	0.320	0.322	0.158	1.84	1983
1984	0.093	0.116	0.369	1.90	0.814	12.2	1.57	0.254	0.213	0.387	0.513	0.524	1.56	1984
1985	0.447	0.343	2.11	8.29	1.04	1.14	0.575	3.41	1.65	2.88	1.72	0.504	2.01	1985
1986	0.336	0.252	2.37	30.6	16.9	1.25	0.713	0.342	0.310	0.323	0.250	0.221	4.48	1986
MEAN	0.245	0.221	0.546	11.5	4.45	2.74	0.784	1.26	1.16	0.981	0.803	0.348	2.13	MEAN

LOCATION - LAT 51 21 20 N DRAINAGE AREA, 1 710 km^2
LONG 97 30 50 W NATURAL FLOW

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	---	---	1961
1962	---	4.53E ON APR 20	---	---	1962
1963	---	26.7 ON APR 22	0.051 ON MAR 2	20 300	1963
1964	---	70.2 B ON APR 9	0.0068 ON MAR 5 *	125 000	1964
		15.9 ON APR 16	0.167 ON FEB 27	35 600	
1965	---				1965
1966	---	54.1 ON APR 15	0.133 ON MAR 7	42 500	1966
1967	---	34.8 ON APR 4	0.1938 ON NOV 15	44 500	1967
1968	---	46.2 ON APR 15	0.147 ON SEP 24	39 700	1968
1969	---	10.4 ON APR 5	0.0798 ON MAR 4	33 200	1969
		43.9 B ON APR 13	0.2278 ON JAN 12	57 800	
1970	---	38.5 ON APR 20	0.1538 ON NOV 28	65 800	1970
1971	---	26.4 B ON APR 12	0.0748 ON FEB 17	24 100	1971
1972	---	48.4 B ON APR 19	0.0628 ON DEC 30	39 800	1972
1973	10.4 AT 21:30 CST ON JUN 18	9.86 ON JUN 19	0.0488 ON JAN 8	24 300	1973
1974	106 AT 18:35 CST ON APR 22	105 ON APR 22	0.207 ON JAN 16	185 000	1974
1975	42.8 AT 08:21 CST ON AUG 27	42.2 ON AUG 27	0.150 ON JAN 24	128 000	1975
1976	86.7 AT 20:43 CST ON APR 9	85.2 ON APR 9	0.065 ON DEC 9	149 000	1976
1977	1.75 AT 10:57 CST ON MAY 20	1.87 ON MAY 20	0.054 ON JAN 22	13 900	1977
1978	83.4 AT 10:15 CST ON APR 18	58.9 ON APR 18	0.1788 ON FEB 7	50 800	1978
1979	121 AT 14:00 CST ON APR 23 *	119 ON APR 23 *	0.1448 ON JAN 17	147 000	1979
1980	20.1 AT 06:00 CST ON APR 11	14.6 ON APR 11	0.153 ON AUG 3	28 900	1980
1981	8.06 AT 19:14 CST ON NOV 1	8.778 ON MAR 30	0.2058 ON FEB 13	47 100	1981
1982	---	49.7 E ON APR 17	0.1938 ON FEB 18	74 000	1982
1983	45.4 B AT 12:00 CST ON APR 8	45.4 B ON APR 8	0.0888 ON DEC 31	51 700	1983
1984	81.1 A ON JUN 24	73.2 A ON JUN 24	0.0878 ON JAN 30	49 500	1984
1985	28.8 B AT 00:51 CST ON APR 4	25.0 B ON APR 3	0.3078 ON FEB 12	83 400	1985
1986	91.0 B AT 05:32 CST ON APR 4	87.4 B ON APR 4	0.1898 ON NOV 14	141 000	1986
				87 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISHING RIVER NEAR FORK RIVER - STATION NO. 05LJ015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	0	5.75	4.02	0.013	0.870	0.194	0.039	0	---	---	1.33	1948
1949	---	---	0	0.682	0.056	0.123	0.092	0.018	0	0	---	---	0.117	1949
1950	---	---	0	1.12	0.277	0.385	0.303	0.095	0	0.004	---	---	0.270	1950
1951	---	---	0	1.58	0.828	0.073	0.104	0.209	0.234	0.273	---	---	0.410	1951
1952	---	---	0	2.25	0.170	0.052	0.005	0	0	0	---	---	0.303	1952
1953	---	---	0	1.50	0.849	8.38	1.19	0.274	0.103	0.181	---	---	1.27	1953
1954	---	---	0	2.87	1.85	5.18	1.47	0.013	0.414	0.684	0.127	---	1.84	1954
1955	---	---	0	3.21	2.46	0.983	0.068	0	0	0	---	---	0.831	1955
1956	---	---	0	0.327	3.23	0.488	0.373	0.047	0.015	0.008	---	---	0.585	1956
1957	---	---	0.028	1.71	0.640	0.075	0.005	0	0	0	---	---	0.304	1957
1958	---	---	0.027	0.071	0.006	0.001	0	0	0	0	---	---	0.013	1958
1959	---	---	0.014	0.122	0.055	0.088	0.058	0	0	0	---	---	0.039	1959
1960	---	---	0	1.32	0.473	0.074	0.002	0	0	0	---	---	0.231	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.285	0.088	0.073	0	0	0	0	---	---	0.055	1962
1963	---	---	0.182	0.444	0.101	0.158	0.017	0.001	0	0	---	---	0.112	1963
1964	---	---	0	0.047	0.031	0	0	0	0	0	---	---	0.010	1964
1965	---	---	0	0.074	0.081	0.086	0.288	0.085	0.432	0.165	---	---	0.146	1965
1966	---	---	0.580	1.82	0.848	0.238	0.157	0.004	0.001	0.005	---	---	0.451	1966
1967	---	---	0.003	0.533	1.36	0.086	0	0	0	0	---	---	0.245	1967
1968	---	---	0.190	0.008	0.001	0	0	0	0	0	---	---	0.025	1968
1969	---	---	0	0.982	0.078	0.032	0.218	0.033	0.117	0.003	---	---	0.178	1969
1970	---	---	0.001	2.30	1.78	0.847	0.932	0.074	0.001	0.002	---	---	0.740	1970
1971	---	---	0.002	2.11	0.047	0.414	0.004	0	0	0.002	---	---	0.318	1971
1972	---	---	0.005	1.44	0.356	0.003	0	0	0	0	---	---	0.222	1972
1973	---	---	0	0.001	0.001	0.005	0.001	0	0	0	---	---	0.001	1973
1974	---	---	0	2.83	5.86	0.470	0.005	0	0	0	---	---	1.15	1974
1975	---	---	0	2.01	0.775	0.978	0	0	0.227	0.082	---	---	0.500	1975
1976	---	---	0.001	3.80	0.034	7.18	0.097	0	0	0	---	---	1.33	1976
1977	---	---	0.003	0.011	0.003	0.001	0	0.002	0.040	0.059	---	---	0.015	1977
1978	---	---	0.006	0.582	0.098	0.033	0.038	0	0.001	0.003	---	---	0.095	1978
1979	---	---	0	4.42	2.90	0.444	0.013	0.008	0	0	---	---	0.986	1979
1980	---	---	0	0.658	0.004	0	0	0.003	0	0.001	---	---	0.081	1980
1981	---	---	0.002	0.006	0.031	0.157	0.130	0	0	0.005	---	---	0.041	1981
1982	---	---	0.202	0.473	0.102	0.027	0.089	0.022	0	0.025	---	---	0.117	1982
MEAN	---	---	0.035	1.34	0.837	0.745	0.181	0.030	0.048	0.042	0.127	---	0.403	MEAN

LOCATION - LAT 51 26 57 N
LONG 100 02 26 W
DRAINAGE AREA, 283 km^2
NATURAL FLOW

FISHING RIVER NEAR FORK RIVER - STATION NO. 05LJ015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	29.7 ON APR 24	0.0 ON MAR 1 *	26 100	1948
1949	---	2.58 ON APR 4	0.0 ON MAR 1	2 480	1949
1950	---	8.41 ON APR 20	0.0 ON MAR 1	5 710	1950
1951	---	5.30 ON APR 9	0.0 ON MAR 1	8 670	1951
1952	---	15.1 B ON APR 7	0.0 ON MAR 1	6 420	1952
1953	---	28.5 ON JUN 5	0.0 ON MAR 1	26 800	1953
1954	---	20.2 B ON APR 17	0.0 ON MAR 1	34 700	1954
1955	---	13.5 ON APR 6	0.0 ON MAR 1	17 600	1955
1956	---	7.48 ON MAY 1	0.0 ON MAR 1	12 000	1956
1957	---	4.22 ON APR 29	0.0 ON MAR 1	5 460	1957
1958	---	0.5958 ON MAR 31	0.0 ON MAR 1	276	1958
1959	---	0.368 ON APR 5	0.0 ON MAR 1	830	1959
1960	---	4.11 ON APR 18	0.0 ON MAR 1	4 900	1960
1961	---	0.0 B ON MAR 1	0.0 ON MAR 1	0	1961
1962	---	2.62 ON APR 19	0.0 ON MAR 1	1 180	1962
1963	---	1.56 B ON APR 8	0.0 ON MAR 1	2 370	1963
1964	---	0.142 ON APR 12	0.0 ON MAR 1	205	1964
1965	---	2.82 ON SEP 24	0.0 ON MAR 1	3 080	1965
1966	---	5.83 ON APR 1	0.0 ON JUL 24	9 540	1966
1967	---	6.17 B ON MAY 1	0.0 ON MAR 1	5 180	1967
1968	---	1.16 B ON MAR 27	0.0 ON MAR 1	533	1968
1969	---	6.20 ON APR 14	0.0 ON MAR 1	3 780	1969
1970	---	7.50 ON APR 27	0.0 ON MAR 1	15 700	1970
1971	---	7.67 B ON APR 12	0.0 ON JUL 24	6 680	1971
1972	---	5.15 B ON APR 19	0.0 ON JUN 15	4 700	1972
1973	---	0.045 ON JUN 28	0.0 ON MAR 1	21.6	1973
1974	---	18.2 ON APR 20	0.0 ON MAR 1	24 300	1974
1975	---	8.41 ON APR 28	0.0 ON MAR 1	10 600	1975
1976	---	52.6 ON JUN 15 *	0.0 ON MAR 1	28 300	1976
1977	0.402 AT 11 35 CST ON SEP 28	0.328 ON SEP 28	0.0 ON MAR 1	311	1977
1978	---	2.21 B ON APR 10	0.0 ON MAR 1	2 000	1978
1979	24.4 AT 00 48 CST ON APR 24 *	20.9 ON APR 24	0.0 ON MAR 1	20 500	1979
1980	4.14 B AT 13 35 CST ON APR 7	3.79 B ON APR 7	0.0 ON MAR 1	1 720	1980
1981	3.51 AT 00 56 CST ON JUN 24	1.90 ON JUN 24	0.0 ON MAR 1	873	1981
1982	---	3.17 B ON APR 15	0.0 ON MAR 1	2 480	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 540	MEAN

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	---	---	---	---	---	---	---	2.64	1.97	1.47	---	1977
1978	1.18	0.890	0.723	0.935	5.46	5.92	2.41	5.60	7.90	10.1	6.62	3.38	4.30	1978
1979	2.70	2.46	2.37	2.38	3.69	7.55	3.93	2.49	2.47	3.27	3.07	2.77	3.26	1979
1980	1.77	1.18	1.06	1.83	3.27	1.41	0.851	1.22	7.52	11.1	10.2	6.02	3.95	1980
1981	2.85	2.08	1.69	1.40	7.46	5.42	1.24	0.814	0.410	0.383	0.516	0.705	2.14	1981
1982	0.936	0.981	0.963	1.17	10.7	10.9	5.79	5.80	5.82	5.63	5.16	3.65	4.81	1982
1983	2.78	2.17	1.88	1.80	6.97	10.9	6.06	4.45	---	---	---	---	---	1983
1984	1.29	0.860	0.620	3.12	7.29	6.16	2.27	1.38	1.44	1.52	2.82	2.27	2.59	1984
1985	1.42	0.933	0.671	1.50	11.2	---	---	4.75	2.40	1.68	1.45	1.02	---	1985
1986	0.841	0.750	0.683	1.37	11.3	9.24	8.71	7.69	5.16	3.40	2.85	2.76	4.60	1986
MEAN	1.75	1.36	1.18	1.72	7.49	7.15	4.01	3.69	4.14	4.53	3.69	2.67	3.67	MEAN

LOCATION - LAT 55 55 50 N DRAINAGE AREA 599 km^2
LONG 98 53 10 W NATURAL FLOW

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	---	---	---	1977
1978	11.4 AT 16 00 CST ON OCT 11	11.1 ON OCT 11	0.697 ON MAR 17	136 000	1978
1979	9.19 AT 12 12 CST ON JUN 7	8.13 ON JUN 7	2.25 ON SEP 15	103 000	1979
1980	---	11.7 E ON OCT 22	0.788E ON AUG 21	125 000	1980
1981	12.0 AT 21 00 CST ON MAY 21	11.6 ON MAY 20	0.259 ON OCT 3 *	87 700	1981
1982	13.0 AT 23 59 CST ON JUN 10	12.8 ON JUN 11	0.802 ON APR 4	152 000	1982
1983	13.7 AT 16 30 CST ON JUN 3	13.4 ON JUN 2	---	---	1983
1984	8.41 AT 14 40 CST ON MAY 24	8.26 ON MAY 25	0.5098 ON APR 6	81 800	1984
1985	---	---	0.4758 ON APR 15	---	1985
1986	15.4 AT 11 20 CST ON MAY 20 *	15.3 ON MAY 20 *	0.8548 ON APR 1	145 000	1986
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		116 000	MEAN

FORK RIVER NEAR ETHELBERT - STATION NO 05LJ016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.58	4.31	7.61	1.25	0.750	2.44	2.44	---	---	---	1954
1955	---	---	---	3.32	3.47	1.67	0.163	0	0	0	---	---	---	1955
1956	---	---	0.028	0.875	3.92	1.43	0.774	0.031	0.376	0.195	---	---	0.955	1956
1957	---	---	0.028	2.83	1.89	0.562	0.019	0	0.001	0	---	---	0.656	1957
1958	---	---	0.062	0.346	0.084	0.033	0.142	0.095	0.256	0.088	---	---	0.140	1958
1959	---	---	0.169	0.688	0.700	2.04	0.606	0.015	0.030	0.417	---	---	0.579	1959
1960	---	---	0	3.77	3.27	0.987	0.093	0.155	0.041	0	---	---	1.03	1960
1961	---	---	0.008	0.033	0.022	0.007	0	0	0	0	---	---	0.009	1961
1962	---	---	0	0.295	0.041	0.250	0.093	0	0	0	---	---	0.084	1962
1963	---	---	0.419	0.774	1.30	1.04	0.067	0	0	0	---	---	0.443	1963
1964	---	---	0	0.204	0.951	0.004	0	0	0	0	---	---	0.146	1964
1965	---	---	0	0.345	1.52	0.755	0.059	0.319	0.701	0.326	---	---	0.503	1965
1966	---	---	0.122	2.75	2.12	1.85	0.459	0.028	0	0	---	---	0.885	1966
1967	---	---	0	0.924	2.67	0.305	0.010	0.001	0	0	---	---	0.489	1967
1968	---	---	0.083	0.085	0.085	0.033	0.007	0.111	0.054	0.011	---	---	0.059	1968
1969	---	---	0	1.88	0.692	0.526	1.10	0.167	0.023	0.588	---	---	0.620	1969
1970	---	---	0.005	3.38	5.41	2.38	2.10	0.444	0.050	0.335	---	---	1.75	1970
1971	---	---	0.024	3.89	0.597	1.49	0.162	0.022	0	0.059	---	---	0.768	1971
1972	---	---	0	2.34	1.61	0.113	0.002	0	0	0	---	---	0.505	1972
1973	---	---	0.004	0.036	0.066	0.777	0.070	0.005	0.627	0.325	---	---	0.236	1973
1974	---	---	0	4.73	7.73	1.50	0.034	0	0.016	0.166	---	---	1.77	1974
1975	---	---	0	3.08	3.64	3.26	0.163	0.011	0.575	0.417	---	---	1.36	1975
1976	---	---	0.013	4.89	0.894	7.70	0.617	0.011	0.001	0	---	---	1.74	1976
1977	---	---	0	0.090	0.246	0.023	0.003	0.003	0.039	0.107	---	---	0.064	1977
1978	---	---	0.030	0.527	0.522	0.187	0.011	0.001	0.027	0.029	---	---	0.167	1978
1979	---	---	0	2.86	4.40	1.45	0.072	0.008	0	0.007	---	---	1.10	1979
1980	---	---	0	1.21	0.147	0.002	0.002	0.148	0.022	0.022	---	---	0.191	1980
1981	---	---	0.013	0.080	0.178	0.384	0.319	0.213	0.078	0.124	---	---	0.171	1981
1982	---	---	0.081	0.815	0.330	0.072	0.892	0.089	0.011	0.138	---	---	0.279	1982
1983	---	---	0	2.71	3.28	1.53	1.51	0.136	0.001	0.020	---	---	1.14	1983
1984	---	---	0.176	0.471	1.23	4.77	0.626	0.036	0.127	0.823	---	---	1.02	1984
1985	---	---	0.188	3.61	1.19	1.00	0.175	1.63	0.672	0.649	---	---	1.13	1985
1986	---	---	1.39	2.61	4.42	0.385	0.745	0.169	0.340	0.682	---	---	1.32	1986
MEAN	---	---	0.092	1.75	1.91	1.35	0.374	0.139	0.198	0.235	---	---	0.686	MEAN

LOCATION - LAT 51 31 20 N DRAINAGE AREA 280 km²
LONG 100 22 10 W REGULATED

FORK RIVER NEAR ETHELBERT - STATION NO 05LJ016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	17.2 R ON JUN 2	0 B ON APR 1 *	---	1954
1955	---	16.5 ON MAY 4	0 ON JUL 23	---	1955
1956	---	7.28 ON MAY 5	0 ON AUG 4	20 200	1956
1957	---	9.60 ON APR 25	0 ON JUL 8	13 900	1957
1958	---	1.13 ON MAR 31	0 ON MAR 1	2 860	1958
1959	---	7.84 ON JUN 28	0 ON MAR 1	12 300	1959
1960	---	12.2 ON APR 11	0 B ON MAR 1	21 800	1960
1961	---	0.0420 ON APR 20	0 B ON MAR 1	200	1961
1962	---	4.11 ON APR 18	0 ON MAR 1	1 770	1962
1963	---	4.02 ON APR 9	0 ON MAR 1	9 500	1963
1964	---	2.20 ON MAY 8	0 ON MAR 1	3 080	1964
1965	---	2.74 ON AUG 2	0 ON MAR 1	10 900	1965
1966	---	12.5 B ON APR 1	0 B ON MAR 1	18 800	1966
1967	---	8.78 ON APR 27	0 B ON MAR 1	10 400	1967
1968	---	0.515 ON MAR 27	0 E ON MAR 1	1 240	1968
1969	---	7.93 ON APR 13	0 B ON MAR 1	13 100	1969
1970	---	14.0 ON APR 28	0 ON SEP 11	37 000	1970
1971	---	10.5 B ON APR 11	0 ON AUG 27	15 300	1971
1972	---	8.55 B ON APR 16	0 B ON MAR 1	10 700	1972
1973	---	1.62 ON JUN 20	0 B ON MAR 1	4 980	1973
1974	---	93.6 B ON APR 19	0 B ON MAR 1	37 500	1974
1975	---	17.6 ON JUN 10	0 B ON MAR 1	29 300	1975
1976	---	54.7 ON JUN 13 *	0 ON AUG 24	36 700	1976
1977	---	0.574 ON MAY 5	0 B ON MAR 1	1 360	1977
1978	---	0.980 ON MAY 9	0 ON AUG 8	3 530	1978
1979	---	17.9 B ON APR 23	0 B ON MAR 1	23 200	1979
1980	---	3.88 B ON APR 6	0 B ON MAR 1	4 040	1980
1981	---	2.86 ON JUL 2	0 B ON MAR 1	3 620	1981
1982	---	5.14 ON JUL 17	0 B ON MAR 1	5 810	1982
1983	---	18.3 B ON APR 24	0 B ON MAR 1	24 200	1983
1984	64.6 AT 11 04 CST ON JUN 23 *	61.0 ON JUN 23	0 B ON MAR 1	21 700	1984
1985	9.73 AT 09 34 CST ON AUG 14	8.45 ON AUG 14	0.0218 ON MAR 16	24 000	1985
1986	15.6 AT 15 04 CST ON MAY 10	14.7 ON MAY 10	0 B ON MAR 1	27 800	1986
				14 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1 1986

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 08NF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	0.019	5.54	0.787	0.248	0.103	0.031	0	0	0	---	0.828	1956
1957	---	---	0.236	0.365	0.163	0.101	0.015	0	0.006	0	---	---	0.106	1957
1958	---	---	0.508	1.63	0.074	0.002	0	0	0	0	---	---	0.273	1958
1959	---	---	0.073	0.032	0	0	0	0	0	0	---	---	0.013	1959
1960	---	---	0.042	1.90	0.128	0.025	0.001	0	0	0	---	---	0.257	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0	0	0	0	0	0	0	0	---	---	0	1963
1964	---	---	0	1.87	1.86	0.135	0.105	0.016	0.013	0.031	---	---	0.502	1964
1965	---	---	0	1.19	0.291	0.185	0.072	0.018	0.040	0.059	---	---	0.229	1965
1966	---	---	0.424	1.88	0.441	0.282	0.087	0.005	0.031	0.006	---	---	0.391	1966
1967	---	---	0.027	0.111	0.103	0.012	0	0	0	0	---	---	0.032	1967
1968	---	---	0.016	0.016	0.007	0	0.001	0.004	0.013	0.012	---	---	0.009	1968
1969	---	---	0	11.9	0.473	0.043	1.04	0.255	0.192	0.128	---	---	1.72	1969
1970	---	---	0	3.13	4.37	0.256	0.088	0.051	0.034	0.002	---	---	0.990	1970
1971	---	---	0.011	0.130	0.067	0.524	0.262	0.009	0.005	0.013	---	---	0.136	1971
1972	---	---	2.23	2.85	0.412	0.262	0.013	0.081	0.147	0.008	---	---	0.721	1972
1973	---	---	0.031	0.026	0.046	0.170	0.018	0.001	0.006	0.015	---	---	0.039	1973
1974	---	---	0	11.8	2.21	0.923	0.224	0.043	0	0.025	---	---	1.85	1974
1975	---	---	0.001	5.52	5.13	2.13	0.363	0.023	1.44	1.51	---	---	2.01	1975
1976	---	---	0.429	22.1	1.41	0.494	0.066	0.005	0.102	0.074	---	---	4.26	1976
1977	---	---	0.030	0.013	0.013	0	0	0	0	0	---	---	0.007	1977
1978	---	---	0.003	0.082	0.016	0.003	0	0	0	0	---	---	0.010	1978
1979	---	---	0	2.20	1.48	0.150	0.012	0	0	0	---	---	0.476	1979
1980	---	---	0	0.028	0	0	0	0	0	0	---	---	0.003	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	1.42	0.130	0.001	0	0	0	0	---	---	0.191	1982
1983	---	---	0.008	2.70	0.768	0.076	0.072	0	0	0	---	---	0.447	1983
1984	---	---	0.019	0.044	0.050	0.002	0	0	0	0	---	---	0.014	1984
1985	---	---	0.336	0.967	0.081	0.001	0	1.09	1.07	0.480	---	---	0.498	1985
1986	---	---	1.65	0.954	1.61	0.104	0.284	0.162	0.071	0.020	---	---	0.611	1986
MEAN	---	0.001	0.197	2.91	0.713	0.198	0.092	0.058	0.104	0.077	0	---	0.536	MEAN

LOCATION - LAT 49 05 45 N DRAINAGE AREA, 1 130 km²
LONG 101 11 00 W REGULATED SINCE 1962

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.006 AND 0 m³/s OCCURRED IN FEBRUARY

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 08NF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	20.3 ON APR 19	0 B ON MAR 1 *	17 600	1956
1957	---	0.8788 ON MAR 25	0 B ON MAR 1	2 250	1957
1958	---	5.57 ON APR 4	0 B ON MAR 1	5 790	1958
1959	---	1.02 B ON MAR 27	0 B ON MAR 1	276	1959
1960	---	5.95 ON APR 5	0 B ON MAR 1	5 440	1960
1961	---	0 ON MAR 1	0 ON MAR 1	0	1961
1962	---	0 ON MAR 1	0 ON MAR 1	0	1962
1963	---	0 ON MAR 1	0 ON MAR 1	0	1963
1964	13.8 AT 02 00 CST ON MAY 7	10.3 ON MAY 5	0 ON MAR 1	10 600	1964
1965	7.96 AT 14 15 CST ON APR 17	4.81 ON APR 17	0 B ON MAR 1	4 650	1965
1966	---	5.10 B ON APR 6	0 B ON MAR 1	8 270	1966
1967	---	0.3114 ON MAY 11	0 B ON MAR 1	869	1967
1968	---	0.0578 ON MAR 20	0 B ON MAR 1	186	1968
1969	45.2 AT 16 40 CST ON APR 16	43.5 ON APR 16	0 B ON MAR 1	36 500	1969
1970	18.5 AT 11 15 CST ON MAY 1	18.0 ON MAY 1	0 B ON MAR 1	21 000	1970
1971	---	2.27 ON JUN 14	0 B ON MAR 1	2 660	1971
1972	---	7.11 B ON MAR 27	0 B ON MAR 1	15 300	1972
1973	2.62 AT 03 52 CST ON JUN 3	1.39 ON JUN 3	0 B ON MAR 1	825	1973
1974	53.8 AT 17 00 CST ON APR 17	45.3 A ON APR 17	0 B ON MAR 1	38 200	1974
1975	29.4 AT 10 17 CST ON APR 30	28.3 ON APR 30	0.0018 ON MAR 1	42 600	1975
1976	94.3 AT 00 08 CST ON APR 12 o	87.2 ON APR 12 *	0.001 ON SEP 9	90 200	1976
1977	---	0.1068 ON MAY 10	0 B ON MAR 1	153	1977
1978	---	0.1228 ON APR 6	0 B ON MAR 1	212	1978
1979	15.4 AT 03 36 CST ON APR 27	12.5 ON APR 27	0 B ON MAR 1	10 100	1979
1980	---	0.0906 ON APR 16	0 B ON MAR 1	72.4	1980
1981	---	0.0028 ON MAR 1	0 B ON MAR 6	0.52	1981
1982	4.82 AT 15 58 CST ON APR 15	4.36 ON APR 21	0 B ON MAR 1	4 040	1982
1983	9.03 AT 14 51 CST ON APR 24	6.89 ON APR 25	0 B ON MAR 20	9 480	1983
1984	0.216 AT 20 18 CST ON APR 13	0.196 ON APR 14	0 B ON MAR 1	303	1984
1985	9.06 AT 07 18 CST ON AUG 26	8.26 ON AUG 26	0 B ON MAR 1	10 500	1985
1986	7.21 B AT 18 23 CST ON MAR 23	5.64 B ON MAR 23	0.004 ON JUL 4	12 900	1986
				11 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS o - EXTREME RECORDED FOR THE PERIOD OF RECORD

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.016	---	---	---	1935
1936	---	---	---	---	0.287	0.030	---	---	---	---	---	---	---	1936
1943	---	---	0	4.98	0.377	0.480	0.141	0.004	0	0	---	---	0.736	1943
1944	---	---	0	0.006	0.003	0.202	0.224	0.029	0.035	0.007	---	---	0.062	1944
1945	---	---	0.081	0.129	0.020	0.059	0.073	0.008	0	0	---	---	0.047	1945
1946	---	---	0.723	2.83	0.100	0.026	0.006	0	0	0	---	---	0.455	1946
1947	---	---	0	2.15	0.758	1.03	1.40	0.050	0.001	0	---	---	0.588	1947
1948	---	---	0	8.18	3.39	0.329	0.047	0.077	0.012	0.007	---	---	1.49	1948
1949	---	---	0	5.05	0.325	1.64	0.135	0.047	0.004	0	---	---	0.884	1949
1950	---	---	0.021	3.91	2.70	0.801	1.17	3.25	0.716	0.161	---	---	1.57	1950
1951	---	---	0	8.65	7.36	0.335	0.084	0.035	0.010	0	---	---	2.05	1951
1952	---	---	0.027	1.60	0.077	0	0.016	0	0	0	---	---	0.211	1952
1953	---	---	0.061	0.729	0.193	0.071	0.092	0.013	0	0	---	---	0.141	1953
1954	---	---	0	0.026	0	0.703	2.21	0.170	0.122	0.140	0.076	---	0.423	1954
1955	---	---	0.018	7.48	2.32	0.389	0.038	0.027	0	0	---	---	1.27	1955
MEAN	---	---	0.071	3.52	1.28	0.421	0.432	0.288	0.088	0.024	0.078	---	0.770	MEAN

LOCATION - LAT 49 09 50 N
LONG 101 02 46 W
DRAINAGE AREA, 1 480 km²
NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1943	---	20.1 ON APR 8	0B ON MAR 1 *	15 800	1943
1944	---	0.934 ON JUL 1	0B ON MAR 1	1 310	1944
1945	---	0.612E ON MAR 28	0E ON MAR 1	998	1945
1946	---	14.0 B ON APR 2	0B ON MAR 1	9 620	1946
1947	---	12.0 E ON JUN 29	0B ON MAR 1	14 200	1947
1948	---	36.8 ON APR 25 *	0B ON MAR 1	31 500	1948
1949	---	36.2 ON APR 12	0B ON MAR 1	18 700	1949
1950	---	11.2 ON APR 21	0B ON MAR 1	33 100	1950
1951	---	28.5 ON MAY 6	0B ON MAR 1	43 300	1951
1952	---	7.45 ON APR 10	0B ON MAR 1	4 480	1952
1953	---	3.31 ON APR 8	0B ON MAR 1	1 760	1953
1954	---	3.43 ON JUL 10	0B ON MAR 1		
1955	---	27.2 B ON APR 9	0B ON MAR 1	26 600	1955
				15 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.057	0.425	5.45	1.29	0.079	0.044	0	0	---	---	0.822	1967
1968	---	---	0.383	1.29	0.840	0.815	0.088	0.841	0.085	0.145	---	---	0.507	1968
1969	---	---	0.184	3.85	1.07	0.782	2.17	0.414	0.293	1.53	---	---	1.27	1969
1970	---	---	0.207	4.38	7.40	3.26	2.50	1.01	0.208	0.595	---	---	2.44	1970
1971	---	---	0.221	7.00	1.47	3.53	0.524	0.252	0.005	0.416	---	---	1.85	1971
1972	---	---	0.088	4.23	2.81	0.480	0.212	0.061	0	0.063	---	---	8.997	1972
1973	---	---	0.028	0.685	0.830	2.08	0.571	0.031	0.283	0.242	---	---	0.586	1973
1974	---	---	0.020	5.78	10.1	2.29	0.218	0.108	0.458	0.421	---	---	2.54	1974
1975	---	---	0.135	3.03	4.47	3.44	0.273	0.085	0.744	0.834	---	---	1.61	1975
1976	---	---	0.123	7.41	1.56	5.88	0.770	0.071	0.016	0.052	---	---	1.86	1976
1977	---	---	0.071	0.806	0.927	0.144	0.103	0.108	0.701	0.817	---	---	0.445	1977
1978	---	---	0.074	1.82	1.05	0.803	0.109	0.001	0.100	0.173	---	---	0.511	1978
1979	---	---	0.087	4.34	9.52	3.85	0.106	0.008	0.020	0.107	---	---	2.22	1979
1980	---	---	0.003	1.55	0.348	0.010	0.043	0.981	0.091	0.146	---	---	0.395	1980
1981	---	---	0.088	0.807	0.780	1.40	0.229	0.084	0.018	0.243	---	---	0.448	1981
1982	---	---	0	1.06	0.942	0.486	2.83	0.457	0.004	0.770	---	---	0.798	1982
1983	---	---	0.034	5.19	6.29	1.88	1.31	0.085	0	0.078	---	---	1.85	1983
1984	---	---	0.228	1.12	1.82	8.81	0.482	0.002	0.088	0.381	---	---	1.33	1984
1985	---	---	0.190	5.24	0.550	0.445	0.101	1.29	0.423	0.548	---	---	1.09	1985
1986	---	---	1.02	5.16	5.38	0.397	0.432	0.172	0.222	0.350	---	---	1.64	1986
MEAN	---	---	0.153	3.31	3.18	1.97	0.847	0.304	0.187	0.386	---	---	1.26	MEAN

LOCATION - LAT 51 51 06 N
LONG 100 14 58 W
DRAINAGE AREA, 440 km²
NATURAL FLOW

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	11.4 AT 13:45 CST ON MAY 10	11.3 ON MAY 10	0 ON JUL 25 *	19 500	1967
1968	3.82 AT 08:30 CST ON AUG 22	3.71 ON AUG 22	0.001 ON SEP 17	10 700	1968
1969	---	10.2 ON APR 16	0.001 ON SEP 4	27 000	1969
1970	---	14.3 ON APR 28	0.042 ON SEP 20	51 700	1970
1971	21.8 AT 18:00 CST ON APR 11	19.1 A ON APR 11	0 ON SEP 23	35 000	1971
1972	13.7 B AT 10:10 CST ON APR 19	12.1 B ON APR 19	0 ON AUG 31	21 100	1972
1973	6.17 AT 00:01 CST ON JUN 23	5.85 ON JUN 22	0 B ON MAR 1	12 400	1973
1974	---	32.6 E ON APR 21	0.014 ON AUG 10	53 800	1974
1975	10.1 AT 14:57 CST ON MAY 1	9.81 ON MAY 1	0 ON AUG 17	34 200	1975
1976	30.0 AT 11:15 CST ON APR 9	15.7 ON APR 9	0 ON OCT 8	41 300	1976
1977	3.43 AT 11:16 CST ON SEP 26	3.37 ON SEP 26	0.0149 ON MAR 1	8 420	1977
1978	3.88 AT 09:30 CST ON APR 19	2.89 ON APR 27	0 ON AUG 5	10 800	1978
1979	18.1 AT 00:39 CST ON APR 26	17.1 ON APR 24	0 ON AUG 15	47 000	1979
1980	3.03 AT 21:00 CST ON APR 18	2.98 ON APR 19	0 B ON MAR 1	8 380	1980
1981	3.51 AT 02:26 CST ON JUN 18	3.34 ON JUN 18	0 B ON MAR 1	8 500	1981
1982	11.2 AT 21:05 CST ON JUL 20	10.9 ON JUL 20	0 B ON MAR 1	15 900	1982
1983	30.0 AT 14:00 CST ON APR 25	28.5 A ON APR 25	0 ON SEP 1	39 200	1983
1984	38.5 AT 09:26 CST ON JUN 25 *	34.0 ON JUN 25 *	0 ON AUG 10	28 200	1984
1985	9.84 AT 21:21 CST ON AUG 15	9.05 ON AUG 15	0.002 ON AUG 8	23 000	1985
1986	14.9 B AT 02:54 CST ON APR 2	14.2 B ON APR 1	0 ON SEP 4	34 700	1986
				28 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	0.185	0.111	0.070	0.144	0.091	0.236	0.185	---	---	---	1958
1959	---	---	0.170	0.488	0.502	1.23	0.162	0.041	0.178	0.409	---	---	0.392	1959
1960	---	---	0.024	0.817	2.05	0.624	0.075	0.037	0.006	0.022	---	---	0.457	1960
1961	---	---	0.003	0.100	0.131	0.008	0.006	0	0	0.025	---	---	0.034	1961
1962	---	---	0.025	0.845	0.139	0.089	0.033	0.035	0.082	0.074	0.071	---	0.137	1962
1963	---	---	0.048	1.09	0.598	0.527	0.105	0.019	0.038	0.085	---	---	0.311	1963
1964	---	---	0.014	0.732	0.458	0.041	0.011	0.018	0.031	0.048	---	---	0.189	1964
1965	---	---	0.004	0.778	1.10	0.342	0.254	0.232	0.821	0.285	---	---	0.476	1965
1966	---	---	0.104	1.00	1.32	1.02	0.181	0.133	0.018	0.085	---	---	0.475	1966
1967	---	---	0.043	0.363	1.87	0.407	0.085	0.120	0.085	0.072	---	---	0.380	1967
1968	---	---	0.235	0.478	0.348	0.223	0.206	0.308	0.104	0.110	---	---	0.251	1968
1969	---	---	0.071	1.21	0.813	0.866	1.39	0.105	0.185	0.850	---	---	0.673	1969
1970	---	---	0.059	0.884	2.94	1.47	1.10	0.244	0.219	0.686	---	---	0.924	1970
1971	---	---	0.052	1.13	0.381	0.782	0.214	0.056	0.029	0.285	---	---	0.358	1971
1972	---	---	0.068	1.22	0.873	0.126	0.069	0.031	0.016	0.053	---	---	0.318	1972
1973	---	---	0.059	0.276	0.432	1.05	0.241	0.037	0.316	0.321	---	---	0.339	1973
1974	---	---	0.065	1.92	2.97	0.709	0.108	0.081	0.308	0.226	---	---	0.793	1974
1975	---	---	0.059	1.30	1.70	1.29	0.082	0.070	0.389	0.295	---	---	0.643	1975
1976	---	---	0.067	2.00	0.482	1.26	0.108	0.044	0.029	0.060	---	---	0.502	1976
1977	---	---	0.048	0.384	0.417	0.087	0.075	0.072	0.471	0.199	---	---	0.214	1977
MEAN	---	---	0.064	0.837	0.978	0.617	0.230	0.088	0.177	0.218	0.071	---	0.413	MEAN

LOCATION - LAT 51 40 30 N, LONG 100 29 30 W. DRAINAGE AREA, 103 km^2. NATURAL FLOW

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	1.13 AT 09:00 CST ON AUG 30	1.08 ON AUG 30	0 E ON AUG 4 *	---	1958
1959	9.06 AT 19:00 CST ON JUN 28	8.10 ON JUN 28	0.028 ON JUL 29	8 290	1959
1960	6.77 AT 08:00 CST ON MAY 27	5.97 ON MAY 27	0 B ON MAR 1	8 670	1960
1961	---	0.272A ON APR 22	0 B ON MAR 2	717	1961
1962	7.48 AT 04:00 CST ON APR 21	3.60 ON APR 20	0 B ON MAR 1	2 910	1962
1963	7.65B AT 11:00 CST ON APR 8	5.61 RB ON APR 8	0 B ON MAR 1	6 560	1963
1964	3.65 AT 10:10 CST ON MAY 8	2.86 R ON MAY 8	0.003 ON JUL 27	3 580	1964
1965	6.40 AT 01:00 CST ON MAY 7	5.92 ON MAY 7	0.0038 ON MAR 1	10 100	1965
1966	8.76 AT 02:30 CST ON MAY 5	5.27 ON MAY 5	0.008 ON SEP 22	10 100	1966
1967	8.24B AT 08:00 CST ON MAY 7	7.14 B ON MAY 7	0 ON SEP 6	8 030	1967
1968	---	1.48 B ON MAR 29	0.024 ON SEP 12	5 310	1968
1969	3.79B AT 08:43 CST ON APR 13	3.60 B ON APR 12	0 ON SEP 14	14 200	1969
1970	8.07 AT 07:11 CST ON MAY 7	6.84 ON MAY 7	0.004 ON AUG 22	19 500	1970
1971	5.75 AT 17:20 CST ON JUN 6	4.13 ON JUN 6	0.014 ON AUG 30	7 570	1971
1972	6.12 AT 05:20 CST ON APR 22	4.67 ON APR 22	0 ON SEP 3	8 730	1972
1973	7.76 AT 03:37 CST ON JUN 20	6.82 ON JUN 20	0 ON AUG 16	7 170	1973
1974	11.8 AT 01:28 CST ON MAY 22 *	10.3 ON MAY 22 *	0.003 ON AUG 11	18 800	1974
1975	8.89 AT 23:07 CST ON APR 28	6.34 ON APR 28	0.003 ON JUL 29	13 800	1975
1976	8.81 AT 07:30 CST ON APR 9	7.42 ON APR 9	0.014 ON AUG 24	10 600	1976
1977	3.54 AT 10:52 CST ON SEP 26	3.36 ON SEP 26	0.021 ON JUL 4	4 540	1977
				8 740	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1 1986

GARLAND RIVER NEAR PULP RIVER - STATION NO 05LG002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.78	5.30	10.3	3.32	0.314	1.84	2.12	0.630	---	---	1954
1955	---	---	---	5.28	5.21	3.72	0.311	0.037	0.017	0.145	---	---	---	1955
1956	---	---	0	0.787	5.19	2.22	2.02	0.277	0.380	0.441	---	---	1.42	1956
1957	---	---	0	4.00	2.27	0.397	0	0	0	0	---	---	0.952	1957
1958	---	---	0.100	0.413	0.306	0.104	0.228	0.101	0.249	0.236	---	---	0.217	1958
1959	---	---	---	1.30	1.06	5.86	2.51	0.137	0.894	2.21	---	---	---	1959
1960	---	---	0	5.88	7.91	3.99	0.288	0.074	0	0	---	---	2.25	1960
1961	---	---	0.016	0.339	0.783	0.138	0	0	0	0	---	---	0.159	1961
1963	---	---	0.099	1.25	1.70	1.78	0.507	0.038	0	0.005	---	---	0.873	1963
1964	---	---	0.057	0.731	1.18	0.166	0.005	0	0	0.032	---	---	0.271	1964
1965	---	---	0	1.38	2.80	1.02	0.275	0.456	1.33	0.504	---	---	0.869	1965
1966	---	---	0.050	6.46	3.89	2.38	0.809	0.138	0.082	0.033	---	---	1.44	1966
MEAN	---	---	0.036	2.47	3.20	2.76	0.854	0.131	0.398	0.477	0.630	---	0.928	MEAN

LOCATION - LAT 51 48 20 N
LONG 100 18 15 W
DRAINAGE AREA, 403 km²
NATURAL FLOW

GARLAND RIVER NEAR PULP RIVER - STATION NO 05LG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	19.8 ON MAY 30	0B ON APR 1 *	---	1954
1955	---	15.0 ON MAY 6	0 ON AUG 21	---	1955
1956	---	7.22 ON MAY 11	0B ON MAR 1	30 000	1956
1957	---	13.3 ON APR 26	0B ON MAR 1	20 200	1957
1958	---	1.13 ON APR 4	0B ON MAR 1	4 580	1958
1959	---	20.9 ON JUN 30 *	---	---	1959
1960	---	19.2 ON MAY 30	0B ON MAR 1	47 800	1960
1961	---	6.67E ON MAY 21	0B ON MAR 1	3 370	1961
1963	---	7.42 ON APR 11	0B ON MAR 1	14 300	1963
1964	---	3.77 ON MAY 10	0 ON JUL 15	5 730	1964
1965	---	7.33 ON MAY 9	0B ON MAR 1	20 500	1965
1966	---	10.2 B ON APR 6	0 ON SEP 24	30 800	1966
				19 700	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO 05PA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	23.6	17.8	13.4	10.3	---	---	70.3	42.9	37.5	60.1	60.6	28.1	---	1979
1980	14.3	12.8	12.2	15.1	25.2	43.6	70.1	108	159	105	74.6	39.5	56.6	1980
1981	21.0	17.2	15.2	14.0	84.8	88.4	39.2	20.5	13.1	10.5	9.81	9.03	35.3	1981
1982	8.82	8.83	9.08	9.86	79.3	115	70.8	---	---	---	53.0	32.4	---	1982
1983	24.1	20.0	18.8	14.2	38.3	109	88.1	84.4	79.7	87.3	62.1	35.7	51.8	1983
1984	28.1	30.5	14.1	39.2	81.5	78.3	44.7	24.1	19.5	16.9	11.4	11.2	32.5	1984
1985	12.6	10.0	10.9	19.8	109	74.4	85.7	45.5	24.6	13.8	10.2	8.74	34.0	1985
1986	7.31	8.75	8.09	11.7	142	159	154	101	52.7	38.3	23.7	17.4	61.5	1986
MEAN	17.6	14.2	12.5	15.8	77.2	92.5	73.0	57.8	55.6	46.1	35.7	22.5	43.6	MEAN

LOCATION - LAT 57 16 06 N
LONG 97 31 24 W
DRAINAGE AREA, 5 930 km²
NATURAL FLOW

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO 05PA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1979	104 AT 23 60 CST ON JUN 28	96.0 ON JUN 30	9 60B ON APR 15	---	1979
1980	207 AT 22 14 CST ON SEP 8	201 ON SEP 7	11.6 B ON APR 15	1 780 000	1980
1981	92.1 AT 21 00 CST ON MAY 15	92.0 ON MAY 14	8.42 ON OCT 12	798 000	1981
1982	129 AT 04 54 CST ON JUN 9	126 ON JUN 10	8.80B ON JAN 1	---	1982
1983	122 AT 00 10 CST ON JUN 4	122 ON JUN 4	12.5 B ON MAY 11	1 630 000	1983
1984	97.3 AT 17 40 CST ON MAY 28	97.3 ON MAY 28	9.67B ON APR 16	1 030 000	1984
1985	134 AT 03 00 CST ON MAY 19	122 ON MAY 20	8.34B ON DEC 26	1 070 000	1985
1986	225 AT 10 30 CST ON MAY 21 *	222 ON MAY 21 *	8.55B ON JAN 29 *	1 840 000	1986
				1 380 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05DA015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	5.33	1.78	0.104	---	---	---	---	---	---	1.79	1979
1980	---	---	0	0.355	0.003	0	---	---	---	---	---	---	0.068	1980
1981	---	0.236	0.071	0.029	0.028	0.030	---	---	---	---	---	---	0.039	1981
1982	---	---	0.082	2.90	0.295	0.165	---	---	---	---	---	---	0.849	1982
1983	---	---	0.190	1.78	0.253	0.090	0.103	---	---	---	---	---	0.572	1983
1984	---	---	0.243	0.242	0.304	0.015	---	---	---	---	---	---	0.202	1984
1985	---	---	0.787	0.179	0.013	0.002	---	---	---	---	---	---	0.250	1985
1986	---	---	0.612	0.329	0.184	0.014	---	---	---	---	---	---	0.289	1986
MEAN	---	0.236	0.249	1.39	0.360	0.053	0.103	---	---	---	---	---	0.510	MEAN

LOCATION - LAT 49 04 40 N DRAINAGE AREA, 220 km²
LONG 99 21 00 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.19 AND 0 M3/ OCCURRED IN FEBRUARY

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05DA015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	43.4 B ON APR 22 *	0 B ON MAR 1 *	18 800	1979
1980	5.66 AT 17:20 CST ON APR 6	2.42 ON APR 6	0 B ON MAR 1	928	1980
1981	---	0.2188 ON MAR 20	0.011A ON APR 20	415	1981
1982	11.2 B AT 16:15 CST ON APR 13 *	10.4 B ON APR 13	0 B ON MAR 1	8 950	1982
1983	---	4.85 B ON APR 2	0 B ON MAR 1	6 030	1983
1984	---	1.46 B ON MAR 26	0 B ON MAR 1	2 130	1984
1985	9.018 AT 20:00 CST ON MAR 19	4.59 B ON MAR 19	0 B ON MAR 1	2 830	1985
1986	---	2.53 B ON MAR 17	0 B ON MAR 1	3 050	1986
				5 380	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GODS RIVER AT OUTLET OF GODS LAKE - STATION NO 04AC005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	---	91.5	94.4	88.7	98.4	111	114	115	115	118	121	---	1933
1934	123	127	129	110	119	193	314	338	303	267	243	227	208	1934
1935	203	177	155	143	144	151	142	122	116	111	---	---	---	1935
1936	---	---	---	117	119	153	204	213	204	178	161	150	---	1936
1937	140	128	118	108	132	203	288	297	266	242	225	210	197	1937
1938	197	186	165	155	164	201	250	271	247	210	163	141	196	1938
1939	126	115	104	91.6	94.4	123	183	221	213	181	161	158	148	1939
1940	152	140	128	118	120	151	158	153	136	118	105	101	132	1940
1941	95.7	83.5	91.4	95.6	125	173	197	201	176	159	141	138	141	1941
1942	136	134	133	125	114	127	146	161	196	218	214	200	159	1942
1943	183	174 R	180	148	156	176	192	188 R	180	174	171	166	172 R	1943
1944	158	144	129	117	114	107 R	111	117	117	113	114	118	121 R	1944
1947	---	---	---	---	---	---	---	---	---	311	281	253	---	1947
1948	222	194	186	152	141	128	125	118	99.0	86.7	76.1	73.9	132	1948
1949	71.9	70.3	88.8	87.6	72.0	78.2	94.5	103	115	167	246	302	122	1949
1950	287	244	205	178	184	236	284	307	285	254	212	201	241	1950
1951	189	171	155	142	157	179	196	206	224	264	275	259	202	1951
1952	223	189	164	146	152	189	258	339	387	375	339	320	257	1952
1953	276	233	197	173	188	173	259	294	276	223	199	190	222	1953
1954	173	158	146	135	130	140	164	172	159	143	134	130	149	1954
1955	131	126	121	121	147	196	287	337	319	287	265	233	213	1955
1956	199	177	163	154	151	184	182	179	160	141	132 R	123 R	180 R	1956
1957	117	112	108	106	113	130	160	178	167	150	136	122	133	1957
1958	117	113	107	104	106	115 R	138 R	172 R	172 R	170 R	188 R	166 R	137 R	1958
1959	155 R	148	140	137	181	276 R	404	410	359	332	309	277	260 R	1959
1960	243	205	153	147	162	178	195 R	191	166 R	143	131	119	189 R	1960
1961	111	104	97.7	91.3	97.7	103	98.4	94.7	89.4	81.2	80.8	63.9	82.6	1961
1962	57.1	62.6	72.6	83.7	88.5	105	119	122	131	131	125	115	101	1962
1963	103	101	107	113	130	171	210	208	189	174	158	148	151	1963
1964	138	128	119	116	126	148	167	171 R	159 R	140 R	126 R	119 R	138 R	1964
1965	112	107	102	101	114	163	218	252 R	247 R	236	224	205	174 R	1965
1966	181	159	143	132	136	178	237	284	256	229	207	191	193	1966
1967	174	155	133	128	137	234	352	377	324	259	213	185	223	1967
1968	165	147	133	120	124	163	220	261	271	260	245	229	195	1968
1969	210	190	97	149	136	135	136	134	137	159	198	230	185	1969
1970	231	215	193	168	162	179	200	202	189	181	185	197	192	1970
1971	201	188	174	160	175	210	233	235	214	177	157	147	189	1971
1972	138	128	116	103	119	145	160	162	145	130	119	112	132	1972
1973	107	101	96.4	84.7	102	134	175	185	179	178	118	108	145	1973
1974	183	186	155	144	146	176	199	208	189	167	153	142	169	1974
1975	135	125	119	111	115	129	145	169	188	198	195	186	151	1975
1976	173	158	141	126	119	112	109	106	108	89.4	90.6	84.2	119	1976
1977	80.8	78.0	76.1	75.0	80.3	82.5	80.7	77.7	83.3	89.4	89.9	88.3	81.8	1977
1978	88.1	86.4	82.3	81.4	94.1	109	115	122	123	140	161	166	114	1978
1979	157	153	151	143	154	221	289	317	279	244	225	201	212	1979
1980	185	174	162	146	146	145	137	127	117	114	114	115	140	1980
1981	114	109	102	95.2	95.8	102	110	111	106	107	118	128	108	1981
1982	130	126	119	112	120	134	146	162	174	171	164	168	144	1982
1983	182	153	145	133	144	205	247	253	233	204	180	158	185	1983
1984	140	126	119	117	125	139	155	155	141	128	116	105	131	1984
1985	97.9	92.0	88.6	90.1	107	150	227	267	265	241	218	193	170	1985
1986	169	151	135	124	154	201	218	213	184	162	149	139	167	1986
MEAN	156 R	144 R	131	122	129	157 R	191 R	203 R	194 R	183 R	175 R	167 R	164	MEAN

LOCATION - LAT 54 50 14 N
LONG 94 05 11 W

DRAINAGE AREA 25 900 km²
NATURAL FLOW

R - REVISED SINCE JAN 1986

GODS RIVER AT OUTLET OF GODS LAKE - STATION NO. 04AC005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)		MINIMUM DAILY DISCHARGE (m^3/s)		TOTAL DISCHARGE (dam^3)	YEAR
1933	---		---		---		---	1933
1934	---		388	ON AUG 4	106	ON APR 28	6 570 000	1934
1935	---		218	ON JAN 1	108	ON OCT 11	---	1935
1936	---		---		---		---	1936
1937	---		303	ON JUL 28	105	ON APR 23	6 210 000	1937
1938	---		277	ON AUG 5	134	ON DEC 31	6 180 000	1938
1939	---		227	ON AUG 17	86.4	ON APR 28	4 870 000	1939
1940	---		158	ON JUN 23	99.1	ON DEC 30	4 180 000	1940
1941	---		210	ON AUG 4	90.6	ON APR 8	4 460 000	1941
1942	---		223	ON OCT 21	111	ON MAY 19	5 010 000	1942
1943	---		195	ON JUL 20	144	ON APR 20	5 440 000R	1943
1944	---		161	ON JAN 1	105	ON JUN 10	3 840 000R	1944
1947	---		---		---		---	1947
1948	---		236	ON JAN 1	72.5	ON DEC 29	4 170 000	1948
1949	---		306	ON DEC 14	87.1	ON APR 17	3 840 000	1949
1950	---		311 E	ON AUG 22	168	ON APR 30	7 580 000	1950
1951	---		277	ON NOV 18	137	ON APR 28	6 360 000	1951
1952	---		394	ON SEP 15	143	ON APR 16	8 120 000	1952
1953	---		303	ON JAN 1	161	ON JUN 15	7 000 000	1953
1954	---		181	ON JAN 1	127	ON MAY 21	4 890 000	1954
1955	---		343	ON AUG 18	119	ON APR 3	6 720 000	1955
1956	---		219	ON JAN 1	119	ON DEC 31	5 070 000R	1956
1957	---		180	ON AUG 8	105	ON APR 4	4 200 000	1957
1958	---		174 R	ON AUG 6	103	ON APR 8	4 330 000R	1958
1959	---		436	ON JUL 25 *	135	ON MAR 28	8 190 000R	1959
1960	---		251	ON JAN 1	115 B	ON DEC 30	5 380 000R	1960
1961	---		115 B	ON JAN 1	86.9B	ON DEC 31	2 820 000	1961
1962	137	AT 18:00 CST ON SEP 22	135	ON SEP 22	56.1B	ON JAN 5 *	3 190 000	1962
1963	218	AT 18:00 CST ON AUG 6	217	ON AUG 7	100 B	ON FEB 2	4 770 000	1963
1964	186	AT 05:35 CST ON JUL 23	175	ON AUG 3	116 E	ON APR 1	4 370 000R	1964
1965	---		257 RE	ON AUG 16	101 B	ON MAR 21	5 490 000R	1965
1966	272	AT 15:30 CST ON AUG 28	266	ON AUG 11	127 B	ON APR 26	6 090 000	1966
1967	---		388 A	ON AUG 15	128 B	ON APR 15	7 040 000	1967
1968	278	AT 15:30 CST ON SEP 23 *	274	ON SEP 13	116	ON MAY 1	6 170 000	1968
1969	---		236	ON DEC 31	130 A	ON AUG 30	5 210 000	1969
1970	---		236 A	ON JAN 1	158	ON MAY 5	6 050 000	1970
1971	245	AT 12:00 CST ON AUG 18	239	ON AUG 15	140 E	ON DEC 31	5 970 000	1971
1972	188	AT 13:46 CST ON JUL 30	167	ON JUL 30	98.8E	ON APR 28	4 170 000	1972
1973	200	AT 18:35 CST ON AUG 17	200	ON AUG 18	93.7	ON APR 18	4 580 000	1973
1974	216	AT 19:00 CST ON AUG 10	213	ON AUG 6	138	ON DEC 24	5 340 000	1974
1975	212	AT 08:30 CST ON OCT 19	201	ON OCT 19	109	ON APR 26	4 780 000	1975
1976	181	AT 12:30 CST ON JAN 2	179	ON JAN 1	82.7	ON DEC 29	3 750 000	1976
1977	93.4	AT 03:00 CST ON NOV 5	92 B	ON NOV 3	73.1	ON APR 11	2 580 000	1977
1978	---		169 B	ON NOV 28	81.3B	ON MAR 26	3 800 000	1978
1979	---		326 A	ON AUG 5	139	ON APR 17	6 700 000	1979
1980	183 B	AT 00:01 CST ON JAN 1	182 B	ON JAN 1	111	ON OCT 10	4 430 000	1980
1981	132	AT 08:43 CST ON DEC 25	132	ON DEC 25	82.3	ON APR 20	3 420 000	1981
1982	---		176 E	ON SEP 8	108	ON APR 23	4 530 000	1982
1983	263	AT 11:30 CST ON AUG 4	260	ON AUG 3	128	ON APR 23	5 830 000	1983
1984	169	AT 04:30 CST ON JUL 22	159	ON JUL 21	101 B	ON DEC 31	4 130 000	1984
1985	277	AT 21:27 CST ON SEP 3	276	ON SEP 4	87.9B	ON MAR 26	5 360 000	1985
1986	223	AT 22:50 CST ON AUG 7	222	ON AUG 1	121 B	ON APR 15	5 260 000	1986
							5 160 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1 1986

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	---	---	---	---	---	---	601	688	---	---	---	1968
1970	207	218	233	253	464	980	855	428	413	676	650	312	457	1970
1971	251	269	229	331	866	889	881	622	441	316	452	301	453	1971
1972	186	148	154	175	803	859	624	333	404	452	226	185	343	1972
1973	158	185	146	155	633	508	510	403	374	896	588	441	416	1973
1974	284	268	249	250	752	908	580	468	519	438	250	195	432	1974
1975	182	174	163	241	852	545	450	660	682	---	---	---	---	1975
1976	316	257	212	255	908	329	472	385	595	362	193	109	367	1976
1977	88.4	103	110	330	366	216	273	321	496	337	270	203	260	1977
1978	180	146	135	138	913	586	852	768	765	635	384	300	488	1978
1979	264	243	222	238	864	816	754	593	442	471	417	310	471	1979
1980	246	224	210	387	964	470	489	393	552	538	302	229	416	1980
1981	210	176	152	136	783	725	546	456	389	647	344	279	405	1981
1982	240	211	186	170	1 110	758	430	415	446	642	386	288	425	1982
1983	258	230	206	190	1 140	1 180	627	584	736	842	471	312	549	1983
1984	257	223	191	537	731	685	521	330	374	396	273	231	396	1984
1985	201	175	149	389	1 120	1 780	1 120	596	579	713	435	275	631	1985
1986	250	232	209	200	---	583	550	672	510	499	355	224	---	1986
MEAN	220	202	186	258	830	728	571	496	517	538	375	261	433	MEAN

LOCATION - LAT 55 51 00 N LONG 92 05 55 W DRAINAGE AREA 85 500 km^2 NATURAL FLOW

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1970	1 250 AT 09:12 CST ON JUN 11	1 240 ON JUN 11	204 B ON JAN 1	14 400 000	1970
1971	1 1808 AT 00:00 CST ON MAY 11	1 160B ON MAY 11	181 B ON APR 13	14 300 000	1971
1972	1 140 AT 08:00 CST ON MAY 20	1 110 ON MAY 19	138 B ON DEC 15	10 900 000	1972
1973	1 330 AT 15:00 CST ON OCT 16	1 330 ON OCT 16	140 B ON MAR 23	13 100 000	1973
1974	1 170 AT 14:00 CST ON JUN 9	1 150 ON JUN 9	183 B ON DEC 30	13 800 000	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	1 780E ON MAY 14	92.08 ON DEC 31	11 800 000	1977
1978	---	813B ON APR 28	84.78 ON JAN 12 *	8 200 000	1978
1979	---	1 700E ON MAY 13	133 B ON MAR 17	14 800 000	1979
1980	---	1 370B ON MAY 24	214 B ON MAR 28	14 800 000	1980
1981	---	1 680B ON MAY 3	207 B ON MAR 17	13 200 000	1981
1982	---	1 760B ON MAY 18	130 B ON APR 25	12 800 000	1982
1983	2 880 AT 14:00 CST ON MAY 27 *	2 130B ON MAY 3	161 B ON APR 24	13 400 000	1983
1984	1 030 AT 07:10 CST ON JUN 27	2 780B ON MAY 27 *	188 B ON APR 14	17 300 000	1984
1985	2 750 AT 20:00 CST ON JUN 27	1 030 ON JUN 27	189 B ON APR 7	12 500 000	1985
1986	---	2 740 ON JUN 27	125 B ON APR 15	19 900 000	1986
		---	183 B ON DEC 31	---	MEAN
				13 700 000	

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.83	0.376	0.003	0.011	0	0	0	---	---	1.04	1974
1975	---	---	0	0.122	0.023	0.020	0	0.011	0.031	0.018	---	---	0.041	1975
1976	---	---	0.002	1.97	0.006	0.004	0	0	0	0	---	---	0.487	1976
1977	---	---	0.005	0	0.002	0.007	---	---	---	---	---	---	0.003	1977
1978	---	---	0.003	0.088	0.008	0.007	---	---	---	---	---	---	0.028	1978
1979	---	---	0	2.04	0.263	0.033	---	---	---	---	---	---	0.576	1979
1980	---	---	0	0.016	0	0	---	---	---	---	---	---	0.004	1980
1981	---	---	0.001	0.001	0.004	0.008	---	---	---	---	---	---	0.003	1981
1982	---	---	0.003	0.207	0.002	0	---	---	---	---	---	---	0.052	1982
1983	---	---	0	0.328	0.003	0.005	---	---	---	---	---	---	0.083	1983
1984	---	---	0.002	0.001	0.009	0.001	---	---	---	---	---	---	0.003	1984
1985	---	---	0.078	0.028	0.003	0.001	---	---	---	---	---	---	0.028	1985
1986	---	---	0.094	0.180	0.471	0.003	---	---	---	---	---	---	0.189	1986
MEAN	---	---	0.015	0.578	0.080	0.007	0.004	0.004	0.010	0.008	---	---	C.185	MEAN

LOCATION - LAT 50 13 27 N
LONG 98 58 36 W
DRAINAGE AREA, 73.8 km^2
NATURAL FLOW

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	15.9 B ON APR 20 *	0B ON MAR 1 *	10 900	1974
1975	---	0.768B ON APR 20	0B ON MAR 1	429	1975
1976	---	13.1 ON APR 8	0B ON MAR 1	5 130	1976
1977	---	0.037 ON JUN 13	0B ON MAR 1	36.5	1977
1978	---	0.402 ON APR 9	0B ON MAR 1	300	1978
1979	---	10.9 ON APR 24	0B ON MAR 1	5 080	1979
1980	---	0.0528 ON APR 5	0B ON MAR 1	37.8	1980
1981	0.024 AT 18:18 CST ON MAY 29	0.021 ON MAY 30	0B ON MAR 1	30.9	1981
1982	1.97 A AT 12:00 CST ON APR 15	1.84 A ON APR 15	0B ON MAR 1	551	1982
1983	1.15 AT 13:36 CST ON APR 24	1.03 ON APR 24	0B ON MAR 1	873	1983
1984	0.108B AT 14:03 CST ON MAY 3	0.038B ON MAY 3	0B ON MAR 1	32.9	1984
1985	0.588B AT 15:58 CST ON MAR 27	0.384B ON MAR 25	0B ON MAR 1	296	1985
1986	5.88 AT 01:38 CST ON MAY 6 *	4.87 ON MAY 6	0B ON MAR 1	1 890	1986
				2 050	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.107	0.051	0.021	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.40	0.078	0.026	0	0	0	0	---	---	0.185	1960
1961	---	---	0	0.123	0.010	0	0	0	0	0	---	---	0.016	1961
1962	---	---	0	0.498	0.038	0.189	0	0.080	0	0	---	---	0.089	1962
1963	---	---	0.805	0.244	0.129	0.736	0.102	0.001	0.001	0	---	---	0.251	1963
1964	---	---	0	1.43	0.776	0.075	0.002	0	0	0	---	---	0.283	1964
1965	---	---	0	1.80	0.148	0.089	0.841	0.045	0.282	0.334	---	---	0.440	1965
1966	---	---	0.223	0.550	0.311	0.003	0	0	0	0	---	---	0.135	1966
1967	---	---	0	1.29	0.341	0.009	0	0	0	0	---	---	0.202	1967
1968	---	---	0.389	0.033	0.111	0.004	0	0	0	0	---	---	0.088	1968
1969	---	---	0	4.01	0.281	0.017	0.540	0.053	0	0.056	---	---	0.610	1969
1970	---	---	0	2.84	1.49	0.175	0.217	0.140	0.059	0.127	---	---	0.503	1970
1971	---	---	0.012	0.540	0.114	0.829	0.288	0.012	0.041	0.087	---	---	0.239	1971
1972	---	---	1.25	0.970	0.118	0.013	0.061	0.001	0.051	0.001	---	---	0.285	1972
1973	---	---	0.048	0.050	0.085	0.013	0.102	0.013	0.025	0.137	---	---	0.085	1973
1974	---	---	0.001	3.70	0.785	0.080	0	0	0	0	---	---	0.584	1974
1975	---	---	0	2.36	0.907	0.471	0.029	0.058	0.408	0.170	---	---	0.541	1975
1976	---	---	0	11.6	0.259	0.114	0.049	0	0	0	---	---	1.47	1976
1977	---	---	0.007	0.019	0.148	0.005	0	0	0	0	---	---	0.023	1977
1978	---	---	0.016	0.276	0.042	0.008	0	0	0	0	---	---	0.047	1978
1979	---	---	0	2.12	0.541	0.130	0.002	0	0	0	---	---	0.344	1979
1980	---	---	0	0.095	0	0	0	0	0	0	---	---	0.012	1980
1981	---	0.130	0.074	0	0.001	0	0	0	0	0	---	---	0.009	1981
1982	---	---	0	0.880	0.022	0.011	0	0	0	0	---	---	0.112	1982
1983	---	---	0	1.70	0.051	0.023	0	0	0	0	---	---	0.217	1983
1984	---	---	0	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0.713	0.109	0.028	0	0	0.017	0.020	0.035	---	---	0.116	1985
1986	---	---	0.509	0.189	0.380	0.010	0.012	0	0	0	---	---	0.140	1986
MEAN	---	0.130	0.150	1.38	0.260	0.109	0.078	0.015	0.030	0.034	---	---	0.284	MEAN

LOCATION - LAT 49 47 00 N DRAINAGE AREA, 292 km²
LONG 100 57 52 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.410 AND 0 m³/s OCCURRED IN FEBRUARY

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	0.467 ON MAR 27	0B ON MAR 1 *	476	1959
1960	---	5.44 B ON APR 4	0B ON MAR 1	3 810	1960
1961	---	0.634 ON APR 4	0 ON MAR 1	345	1961
1962	---	4.05 ON APR 7	0 ON MAR 1	2 100	1962
1963	---	4.87 B ON MAR 23	0B ON MAR 1	5 330	1963
1964	---	3.74 ON APR 10	0B ON MAR 1	5 990	1964
1965	---	7.82 ON APR 14	0B ON MAR 1	9 310	1965
1966	---	2.12 B ON MAR 30	0B ON MAR 1	2 870	1966
1967	---	2.83 B ON APR 11	0B ON MAR 1	4 280	1967
1968	---	1.01 B ON MAR 26	0B ON MAR 1	1 430	1568
1969	---	17.3 B ON APR 14	0B ON MAR 1	12 900	1969
1970	---	8.55 B ON APR 10	0B ON MAR 1	12 800	1970
1971	---	4.73 ON JUN 9	0B ON MAR 1	5 080	1971
1972	---	4.81 B ON MAR 21	0B ON MAR 1	5 230	1972
1973	---	1.16 ON JUL 28	0B ON MAR 1	1 370	1973
1974	---	13.4 ON APR 18	0B ON MAR 1	11 900	1974
1975	---	7.48 B ON APR 17	0B ON MAR 1	11 500	1975
1976	---	46.2 B ON APR 10 *	0B ON MAR 1	31 200	1976
1977	---	0.521 ON MAY 9	0B ON MAR 1	477	1977
1978	---	0.9128 ON APR 11	0B ON MAR 1	998	1978
1979	---	10.8 ON APR 23	0B ON MAR 1	7 280	1979
1980	---	0.4248 ON APR 8	0B ON MAR 1	245	1980
1981	---	0.2838 ON MAR 1	0 ON MAR 30	201	1981
1982	8.27 AT 10 55 CST ON APR 14 *	5.73 ON APR 14	0B ON MAR 1	2 370	1982
1983	5.808 AT 12 04 CST ON APR 11	4.90 ON APR 22	0B ON MAR 1	4 810	1983
1984	---	0.002E ON MAR 25	0B ON MAR 1	0.80	1984
1985	---	3.63 B ON MAR 22	0B ON MAR 1	2 460	1985
1986	2.218 AT 06 32 CST ON MAR 26	1.67 B ON MAR 19	0B ON MAR 1	2 950	1986
				5 380	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.014	0	---	---	---	---	---	---	---	1936
1943	---	---	0	1.45	0.061	0.175	0.024	0	5	0	---	---	0.210	1943
1944	---	---	0	0	0	0.101	0.127	0.006	0.004	0.004	---	---	0.030	1944
1945	---	---	0.015	0.076	0.027	0.020	0.009	0	0	0	---	---	0.018	1945
1946	---	---	0.647	0.251	0.013	0	0.002	0	0	0	---	---	0.114	1946
1947	---	---	0	0.189	0.006	0.150	0.123	0	0	0	---	---	0.059	1947
1948	---	---	0	1.11	0.676	0.004	0	0	0	0	---	---	0.222	1948
1949	---	---	0	1.16	0.054	0.246	0.002	0	0	0	---	---	0.179	1949
1950	---	---	0	0.863	0.535	0.182	0.131	0.360	0.146	0.060	---	---	0.269	1950
1951	---	---	0	2.17	1.56	0.082	0	0	0	0	---	---	0.475	1951
1952	---	---	0.033	0.267	0	0	0.008	0	0	0	---	---	0.038	1952
1953	---	---	0.016	0.035	0	0.007	0	0	0	0	---	---	0.007	1953
1954	---	---	0	0	0	0.227	0.198	0.026	0	0	---	---	0.056	1954
1955	---	---	0	1.71	0.416	0.085	0.020	0	0	0	---	---	0.277	1955
1956	---	---	0	1.89	0.190	0.056	0.015	0	0	0	---	---	0.264	1956
1957	---	---	0.076	0.078	0.043	0.088	0.809	0.141	0.181	0.023	---	---	0.077	1957
1958	---	---	0.355	0.209	0.010	0	0	0	0	0	---	---	0.072	1958
1959	---	---	0.071	0.005	0	0	0	0	0	0	---	---	0.010	1959
1960	---	---	0.108	0.507	0.019	0.009	0	0	0	0	---	---	0.079	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0	0	0	0	0	0	0	0	---	---	0.089	1963
1964	---	---	0.125	0.017	0.002	0.545	0.019	0.003	0.007	0.001	---	---	0.229	1964
1965	---	---	0.433	0.791	0.500	0.101	0.016	0	0	0	---	---	0.050	1965
1966	---	---	0	0.214	0.084	0.095	0.003	0	0	0.007	---	---	0.076	1966
1967	---	---	0.191	0.205	0.166	0.048	0.001	0	0	0	---	---	0.016	1967
1968	---	---	0	0.051	0.077	0.001	0	0	0	0	---	---	0.011	1968
1969	---	---	0.081	0.004	0	0	0	0	0	0	---	---	0.506	1969
1970	---	---	0	3.28	0.571	0.083	0.142	0.023	0	0	---	---	0.385	1970
1971	---	---	0	0.823	2.05	0.156	0.016	0.006	0	0	---	---	0.034	1971
1972	---	---	0	0.085	0.005	0.189	0.031	0	0	0.003	---	---	0.183	1972
1973	---	---	0.709	0.509	0.111	0.097	0.022	0.018	0.005	0.003	---	---	0.017	1973
1974	---	---	0.007	0.025	0.078	0.019	0.001	0	0	0.006	---	---	0.518	1974
1975	---	---	0	3.49	0.569	0.184	0.007	0.003	0	0	---	---	0.486	1975
1976	---	---	0	1.87	1.76	0.121	0.039	0.008	0.027	0.273	---	---	1.93	1976
1977	---	---	0	14.4	1.20	0.117	0.003	0.001	0	0	---	---	0	1977
1978	---	---	0	0	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.007	0	0	0	0	0	0	---	---	0.067	1979
1980	---	---	0	0.497	0.043	0.006	0	0	0	0	---	---	0	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0	0	0	0	0	0	0	---	---	0.030	1982
1983	---	---	0	0.241	0	0	0.002	0	0	0	---	---	0.112	1983
1984	---	---	0.044	0.801	0.061	0.003	0	0	0	0	---	---	0.001	1984
1985	---	---	0.001	0	0.008	0	0	0	0	0	---	---	0.035	1985
1986	---	---	0.240	0.032	0.006	0	0	0	0	0	---	---	0.030	1986
	---	---	0.015	0.024	0.180	0	0.027	0	0	0	---	---		
MEAN	---	0.001	0.072	0.887	0.248	0.089	0.023	0.014	0.008	0.009	---	---	0.185	MEAN

LOCATION - LAT 49 15 50 N
LONG 100 59 45 W

DRAINAGE AREA, 734 km²
NATURAL FLOW

REMARKS - DATA PRIOR TO 1957 WERE PUBLISHED UNDER STATION NO. 05NF004 "GRAHAM CREEK NEAR MELITA"

GRAHAM CREEK NEAR MELITA - STATION NO. OSNF008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	0 ON MAY 24 *	---	1936
1943	---	10.1 ON APR 4	0B ON MAR 1	4 450	1943
1944	---	0.894 ON JUN 29	0B ON MAR 1	636	1944
1945	---	0.5018 ON APR 13			
1946	---	5.80 ON MAR 27	0B ON MAR 1	384	1945
1947	---	0.8648 ON APR 12	0B ON MAR 1	2 420	1946
1948	---	5.15 ON APR 22	0B ON MAR 1	1 250	1947
1949	---	11.2 ON APR 11	0B ON MAR 1	4 700	1948
1950	---	1.38 ON MAY 16	0B ON MAR 1	3 800	1949
1951	---	7.02 ON MAY 5	0B ON MAR 1	5 890	1950
1952	---	1.10 B ON APR 2	0B ON MAR 1	10 000	1951
1953	---	0.510 ON MAR 31	0E ON MAR 1	802	1952
1954	---	0.227E ON JUN 1	0E ON MAR 1	152	1953
1955	---	7.02 B ON APR 5	0B ON MAR 1	1 190	1954
1956	---	4.53 ON APR 14	0B ON MAR 1	5 850	1955
1957	---	1.27 ON AUG 1	0B ON MAR 1	5 590	1956
1958	---	2.27 B ON MAR 29	0 ON MAR 1	1 630	1957
1959	---	0.5668 ON MAR 27	0B ON MAR 1	1 520	1958
1960	---	1.81 B ON APR 4	0B ON MAR 1	203	1959
1961	---	0 ON MAR 1	0 ON MAR 1	1 670	1960
1962	---	0 ON MAR 1	0 ON MAR 1	0	1961
1963	---	1.50 ON JUN 2	0B ON MAR 1	0	1962
1964	---	2.12 B ON APR 3	0B ON MAR 1	1 870	1963
1965	---	0.6548 ON APR 18	0 ON MAR 1	4 850	1964
1966	---	0.7388 ON MAR 15	0B ON MAR 1	1 080	1965
1967	---	0.2898 ON APR 11	0B ON MAR 1	1 820	1966
1968	---	0.3918 ON MAR 26	0B ON MAR 1	342	1967
1969	---	11.8 ON APR 17	0B ON MAR 1	229	1968
1970	---	5.86 E ON MAY 3	0B ON MAR 1	10 700	1969
1971	---	0.841 ON JUN 12	0B ON MAR 1	8 350	1970
1972	---	2.18 B ON MAR 24	0B ON MAR 1	710	1971
1973	---	0.122 ON MAY 2	0B ON MAR 1	3 870	1972
1974	---	14.8 B ON APR 18	0B ON MAR 1	359	1973
1975	---	5.88 ON MAY 3	0B ON MAR 1	11 000	1974
1976	---	36.5 ON APR 12 *	0B ON MAR 1	10 300	1975
1977	---	0.0018 ON MAR 8	0B ON MAR 1	40 800	1976
1978	---	0.0408 ON APR 16	0B ON MAR 1	0.52	1977
1979	---	3.20 B ON APR 19	0B ON MAR 1	18.0	1978
1980	---	0 B ON MAR 1	0B ON MAR 1	1 420	1979
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1980
1982	1.46 AT 02 10 CST ON APR 16	1.26 ON APR 15	0B ON MAR 1	0	1981
1983	2.03 AT 04 40 CST ON APR 7 *	1.51 B ON APR 5	0B ON MAR 1	630	1982
1984	0.284 AT 06 13 CST ON MAY 7	0.066 ON MAY 7	0B ON MAR 1	2 370	1983
1985	1.53 AT 07 48 CST ON MAR 20	1.32 B ON MAR 20	0B ON MAR 1	24.7	1984
1986	0.898 AT 04 22 CST ON MAY 6	0.732 ON MAY 6	0B ON MAR 1	744	1985
				642	1986
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 500	MEAN

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. OSTD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	---	---	---	---	119	98.3	78.6	61.7	---	1959
1960	46.2	43.1	33.1	30.6	48.7	123	110	91.5	66.3	48.0	39.0	29.9	59.3	1960
1961	23.8	20.7	17.9	15.6	34.2	43.0	35.8	29.6	22.4	18.3	19.0	16.5	24.8	1961
1962	15.2	14.2	13.3	12.9	41.4	105	112	77.5	56.2	44.8	40.5	38.7	47.7	1962
1963	35.8	31.8	28.7	30.9	70.6	130	125	89.7	64.3	51.3	48.0	42.8	62.6	1963
1964	36.2	28.5	23.3	39.2	88.6	80.2	63.8	53.1	59.9	87.5	104	99.4	62.0	1964
1965	82.9	66.4	54.3	43.3	103	194	207	161	138	114	99.5	84.1	113	1965
1966	68.7	58.3	48.9	41.5	70.6	184	237	228	187	138	99.4	75.9	120	1966
1967	59.8	50.7	44.1	38.9	54.9	121	130	111	80.8	60.4	50.4	43.9	70.6	1967
1968	37.1	33.7	29.2	27.5	69.2	140	142	117	95.1	80.7	97.3	94.4	81.3	1968
1969	79.7	66.6	51.8	47.3	67.0	96.4	95.9	70.4	86.7	116	127	108	84.5	1969
1970	84.9	64.3	49.8	39.4	52.2	103	154	138	107	87.5	91.1	88.2	88.5	1970
1971	76.1	62.7	48.8	42.9	80.3	102	114	101	86.3	73.0	90.3	99.6	81.5	1971
1972	92.3	73.6	56.1	41.1	87.8	133	145	129	107	97.7	86.2	73.0	93.6	1972
1973	58.8	47.1	39.1	35.9	47.0	85.8	82.1	84.4	79.3	88.1	61.4	53.5	60.3	1973
1974	45.0	36.3	32.8	31.5	57.5	119	128	107	78.9	57.6	46.0	38.6	65.2	1974
1975	33.9	28.1	26.3	25.3	36.7	80.9	118	118	91.8	83.3	77.0	63.7	65.8	1975
1976	50.0	39.6	32.3	29.9	32.4	37.5	69.9	79.8	77.4	61.9	53.3	46.0	50.1	1976
1977	39.1	32.9	29.0	34.9	53.7	81.2	105	89.5	82.2	64.4	84.2	82.5	65.8	1977
1978	89.2	55.0	42.2	36.3	52.4	68.8	80.5	86.5	76.2	80.3	86.6	92.5	70.7	1978
1979	77.6	68.6	49.0	37.7	50.5	134	185	141	103	77.9	61.5	48.4	84.9	1979
1980	41.0	35.1	30.3	28.3	35.5	31.7	33.5	32.8	61.4	83.7	99.8	89.9	51.2	1980
1981	71.4	54.1	42.0	34.4	55.0	74.1	75.1	76.8	55.6	49.6	52.5	55.3	58.1	1981
1982	85.8	50.4	41.5	34.6	77.7	115	112	84.6	74.1	58.8	49.7	46.3	67.6	1982
1983	41.7	36.0	31.4	27.9	42.5	122	133	122	109	117	110	102	83.2	1983
1984	88.8	71.5	54.0	51.4	85.1	136	137	115	93.5	85.1	83.5	86.3	91.7	1984
1985	87.4	73.1	---	---	---	---	180	153	115	---	---	---	---	1985
1986	50.3	42.4	34.1	31.6	67.0	108	140	159	144	116	91.1	72.6	88.3	1986
MEAN	57.4	47.7	37.8	34.3	59.7	105	119	105	88.9	80.3	75.4	67.9	72.8	MEAN

LOCATION - LAT 55 44 35 N DRAINAGE AREA 15 400 km^2
LONG 97 00 00 W NATURAL FLOW

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	---	---	---	1959
1960	---	---	---	---	1960
1961	---	135 E ON JUN 25	25.3 ON DEC 31	1 880 000	1961
1962	132 AT 16:20 CST ON JUN 28	48.4 ON MAY 30	15.0E ON APR 21	780 000	1962
1963	147 AT 13:30 CST ON JUN 23	122 ON JUN 28	12.7E ON APR 11 *	1 510 000	1963
1964	---	140 ON JUN 26	26.3 ON MAR 21	1 970 000	1964
1965	---	106 ON NOV 17	20.8A ON MAR 19	1 980 000	1965
1966	---	215 E ON JUL 1	38.5 ON APR 26	3 550 000	1966
1967	---	245 ON JUL 21 *	39.6 ON APR 26	3 790 000	1967
1968	---	134 ON JUN 26	35.1E ON MAY 2	2 230 000	1968
1969	---	150 E ON JUL 9	26.3A ON APR 25	2 570 000	1969
1970	---	129 ON NOV 3	41.3 ON APR 11	2 670 000	1970
1971	125 AT 16:13 CST ON JUL 14	182 E ON JUL 12	36.2 ON APR 17	2 790 000	1971
1972	152 AT 11:46 CST ON JUL 18	124 ON JUL 13	40.2 ON APR 19	2 570 000	1972
1973	86.0 AT 13:00 CST ON AUG 26	151 ON JUL 18	37.4 ON APR 24	2 980 000	1973
1974	140 AT 17:00 CST ON JUL 12	90.0 ON AUG 29	34.5A ON APR 19	1 900 000	1974
1975	132 AT 13:15 CST ON JUL 26	135 ON JUN 29	29.4 ON APR 24	2 050 000	1975
1976	88.8 AT 12:30 CST ON AUG 18	129 ON JUL 26	25.0 ON APR 13	2 070 000	1976
1977	117 AT 10:15 CST ON JUL 13	84.4 ON SEP 8	28.6 ON APR 5	1 580 000	1977
1978	106 AT 12:45 CST ON NOV 3	112 ON JUL 13	28.0 ON MAR 31	2 110 000	1978
1979	178 AT 15:00 CST ON JUL 15 *	99.1 ON NOV 1	35.1 ON APR 22	2 230 000	1979
1980	103 AT 18:15 CST ON OCT 30	173 ON JUL 15	36.1 ON APR 18	2 880 000	1980
1981	90.0 AT 12:30 CST ON JUL 9	103 ON OCT 30	26.9 ON APR 13	1 820 000	1981
1982	125 AT 11:50 CST ON JUN 28	84.5 ON JUL 8	32.1 ON APR 26	1 830 000	1982
1983	142 AT 15:35 CST ON JUL 27	122 ON JUN 25	32.8 ON APR 23	2 130 000	1983
1984	152 AT 12:43 CST ON JUN 30	137 ON JUL 19	27.1 ON APR 19	2 620 000	1984
1985	---	148 ON JUN 29	45.0 ON APR 6	2 900 000	1985
1986	186 AT 18:25 CST ON AUG 24	---	---	---	1986
		183 ON AUG 18	30.6 ON APR 3	2 780 000	
				2 300 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	11.2	8.22	5.22	5.64	4.93	4.91	---	1957
1958	5.18	5.28	5.90	8.32	13.3	13.8	10.3	7.47	6.80	7.05	6.94	6.80	8.09	1958
1959	7.24	6.86	6.57	6.59	14.8	22.8	22.9	15.0	12.9	12.3	11.4	11.5	12.7	1959
1960	10.6	10.0	9.29	9.88	12.7	23.2	18.0	12.1	8.21	5.26	4.88	4.12	10.7	1960
1961	4.87	4.72	4.83	5.06	5.87	5.32	5.38	3.97	2.14	1.85	1.71	2.11	3.88	1961
1962	2.18	2.88	3.20	3.35	8.19	18.0	11.6	9.67	7.92	6.31	6.12	5.18	6.88	1962
1963	5.08	5.04	4.82	6.49	10.8	16.5	17.3	11.9	9.81	8.50	8.41	7.90	9.57	1963
1964	8.27	7.47	8.78	8.37	8.57	7.88	7.02	8.51	13.4	19.2	20.9	18.1	11.0	1964
1965	16.3	14.1	12.9	11.0	19.6	33.7	27.9	19.2	16.4	13.8	12.6	12.4	17.8	1965
1966	11.7	10.6	9.56	8.78	12.3	29.2	45.3	42.7	31.1	23.5	19.2	17.5	21.9	1966
1967	15.1	13.1	11.2	10.8	12.5	18.3	19.0	18.1	12.5	9.78	9.32	9.29	13.3	1967
1968	8.74	8.86	8.45	8.44	12.7	17.8	18.3	13.4	13.3	12.7	13.0	13.0	12.4	1968
1969	11.6	11.0	10.1	11.2	14.3	12.8	10.1	9.08	8.85	12.9	14.3	14.2	11.7	1969
1970	12.3	10.8	9.92	9.37	13.2	17.0	28.0	25.1	19.4	15.1	17.1	15.8	16.2	1970
1971	14.2	12.5	11.0	10.8	15.7	15.9	14.5	11.2	8.76	8.81	10.7	12.4	12.2	1971
1972	11.9	11.3	10.3	9.58	16.5	20.9	26.6	23.3	17.6	17.3	16.5	14.6	16.4	1972
1973	13.9	12.0	11.1	10.1	16.5	24.5	22.7	18.0	13.4	9.80	8.80	8.67	14.1	1973
1974	8.38	8.33	8.13	8.67	15.1	19.5	16.1	10.7	8.35	5.81	6.37	6.11	10.2	1974
1975	6.44	6.47	6.31	6.47	9.17	17.3	20.2	18.2	11.6	10.0	8.81	7.82	10.6	1975
1976	7.88	7.50	6.93	6.85	6.77	8.31	12.2	12.6	11.4	10.0	9.24	8.86	9.04	1976
1977	8.42	8.02	7.55	7.89	9.04	9.80	11.9	15.0	16.6	14.9	16.2	14.7	11.7	1977
1978	13.2	11.3	9.92	9.74	11.5	12.1	12.3	10.9	10.2	12.5	13.9	12.9	11.7	1978
1979	12.1	10.9	10.0	9.70	16.4	28.3	23.6	15.5	11.2	8.71	9.11	8.73	13.8	1979
1980	8.24	8.28	7.59	7.25	7.18	6.59	5.50	4.48	5.80	8.43	8.57	9.39	7.35	1980
1981	9.32	8.57	8.12	7.52	8.35	9.25	9.45	6.45	4.93	5.23	6.82	7.07	7.59	1981
1982	7.03	6.79	6.67	7.05	10.6	13.5	11.8	9.32	7.32	6.22	5.39	5.54	8.11	1982
1983	5.69	5.82	5.61	5.83	6.80	12.0	16.6	22.2	23.0	21.5	20.1	17.0	13.7	1983
1984	14.9	13.7	11.3	14.7	23.8	28.2	25.3	18.0	14.0	17.0	21.2	21.3	18.7	1984
1985	18.5	15.7	13.7	12.4	23.3	31.6	28.3	23.6	22.2	19.5	16.6	14.3	20.0	1985
1986	13.0	11.5	10.8	10.6	18.3	20.7	21.2	21.5	15.0	12.8	11.1	10.5	14.5	1986
MEAN	10.1	9.27	8.57	8.64	12.9	17.8	17.7	14.8	12.3	11.5	11.4	10.8	12.3	MEAN

LOCATION - LAT 54 47 20 N
LONG 99 58 10 W
DRAINAGE AREA 3 250 km^2
NATURAL FLOW

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	---	---	---	1958
1959	---	16.3 ON JUN 13	4.73 ON JAN 11	255 000	1959
		27.7 ON JUL 6	8.37 ON MAR 4	400 000	
1960	---	---	---	---	1960
1961	---	25.6 E ON JUN 12	3.82 ON DEC 22	338 000	1961
1962	---	8.64 ON MAY 21	1.30 ON OCT 11 *	125 000	1962
1963	---	21.8 ON JUN 16	1.83 ON JAN 3	217 000	1963
1964	---	20.3 ON JUN 30	4.13 ON APR 21	302 000	1964
		21.4 ON OCT 24	5.72 ON APR 25	349 000	
1965	---	---	---	---	1965
1966	---	34.8 E ON JUN 11	10.6 ON APR 22	549 000	1966
1967	---	50.1 ON JUL 8 *	8.35 ON APR 15	689 000	1967
1968	---	19.8 ON JUL 7	8.78 ON DEC 27	418 000	1968
1969	---	20.8 ON JUL 18	7.99A ON APR 3	392 000	1969
		15.0 E ON MAY 20	8.10 ON SEP 3	369 000	
1970	33.7 AT 18 00 CST ON JUL 7	32.8 ON JUL 7	9.12 ON APR 21	512 000	1970
1971	18.7 AT 13 00 CST ON JUN 1	17.4 ON JUN 2	7.84 ON SEP 25	364 000	1971
1972	30.6 AT 17 00 CST ON JUL 10	28.6 ON JUL 9	9.00 ON APR 22	519 000	1972
1973	28.3 AT 18 46 CST ON JUN 23	27.8 ON JUN 24	8.52 ON DEC 4	446 000	1973
1974	20.8 AT 16 05 CST ON JUN 5	20.6 ON JUN 14	5.82 ON DEC 12	323 000	1974
1975	24.1 AT 15 30 CST ON JUN 29	22.5 ON JUL 4	5.97 ON APR 2	334 000	1975
1976	14.9 AT 17 16 CST ON AUG 2	14.4 ON AUG 2	5.34 ON MAY 31	286 000	1976
1977	18.2 AT 13 01 CST ON NOV 12	17.3 ON SEP 14	7.05 ON APR 6	368 000	1977
1978	15.6 AT 13 51 CST ON NOV 7	15.0 ON NOV 7	9.37 ON MAR 31	369 000	1978
1979	31.8 AT 17 06 CST ON JUN 8	29.7 ON JUN 8	8.44 ON DEC 17	434 000	1979
1980	10.1 AT 05 51 CST ON OCT 30	9.80 ON NOV 18	4.08 ON AUG 20	233 000	1980
1981	12.4 AT 14 04 CST ON JUL 8	11.5 ON JUN 30	4.17 ON OCT 7	239 000	1981
1982	14.3 AT 12 26 CST ON JUN 24	14.0 ON JUN 24	5.03 ON NOV 17	256 000	1982
1983	26.0 AT 15 48 CST ON SEP 23	25.0 ON SEP 23	5.27 ON APR 11	431 000	1983
1984	32.8 AT 14 22 CST ON JUN 10	31.0 ON JUN 10	10.5 ON MAR 16	590 000	1984
1985	35.4 AT 13 18 CST ON JUN 19 *	34.7 A ON JUN 30	11.1 ON APR 16	631 000	1985
1986	24.8 AT 17 02 CST ON AUG 2	24.4 ON AUG 2	9.85 ON APR 10	458 000	1986
				387 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASSMERE DRAIN NEAR MIDDLECHURCH - STATION NO. 05DJ017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	1.01	2.21	0.185	---	---	---	---	---	---	1963
1964	---	---	0	1.22	0.082	0.118	---	---	---	0.038	---	---	---	1964
1965	---	---	0	5.05	0.807	0.125	0.064	0.037	0.034	0.023	---	---	0.853	1965
1966	---	---	0.005	4.20	0.876	0.132	0.216	0.065	0.019	0.009	---	---	0.681	1966
1967	---	---	0.027	3.58	0.582	0.064	0.066	0.001	0.001	0	---	---	0.532	1967
1968	---	---	0.454	0.553	0.161	0.098	0.613	1.64	0.693	0.449	---	---	0.585	1968
1969	---	---	0	5.73	0.546	0.673	1.82	0.895	0.306	0.155	---	---	1.25	1969
1970	---	---	0	9.36	1.32	0.495	0.660	0.170	0.213	0.113	---	---	1.52	1970
1971	---	---	0	6.40	0.253	0.107	0.162	0.095	0.015	0.013	---	---	0.865	1971
1972	---	---	0.111	5.88	0.046	0.019	0.014	0.026	0.013	0.015	---	---	0.751	1972
1973	---	---	1.52	0.018	0.006	0.052	0.011	0.006	0.013	0.028	---	---	0.209	1973
1974	---	---	0	13.5	4.96	0.405	0.111	0.061	0.045	0.061	---	---	2.42	1974
1975	---	---	0	1.44	0.087	0.025	0.003	0.002	0	0.011	---	---	0.192	1975
1976	---	---	0	4.47	0.010	0.096	0.011	0.001	0	0	---	---	0.562	1976
1977	---	---	0.012	0.280	0.073	0.087	0.017	0.001	0.286	0.076	---	---	0.101	1977
1978	---	---	0	6.45	0.252	0.081	0.033	0.008	0.033	0.015	---	---	0.843	1978
1979	---	---	0	14.5	2.39	0.167	0.026	0.013	0.003	0.003	---	---	2.10	1979
1980	---	---	0	1.18	0.019	0.007	0	0	0	0.007	---	---	0.144	1980
1981	---	---	0.496	0.037	0.021	0.045	0.014	0.035	0.006	0.031	---	---	0.086	1981
1982	---	---	0.438	2.51	0.044	0.859	0.031	0.009	0.016	0.049	---	---	0.389	1982
1983	---	---	0.531	5.92	0.030	0.865	0.110	0.023	0.008	0.004	---	---	0.896	1983
1984	---	---	0.252	0.272	0.038	0.021	0	0	0	0.022	---	---	0.075	1984
1985	---	---	1.76	0.988	0.031	0.028	0.003	0.989	0.008	0.006	---	---	0.479	1985
1986	---	---	2.53	3.81	1.82	0.059	1.04	0.116	0.059	0.050	---	---	1.18	1986
MEAN	---	---	0.354	4.29	0.637	0.243	0.227	0.191	0.080	0.051	---	---	0.760	MEAN

LOCATION - LAT 50 00 08 N LONG 97 07 01 W

DRAINAGE AREA 471 km^2

NATURAL FLOW

GRASSMERE DRAIN NEAR MIDDLECHURCH - STATION NO 05OJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	3 948 ON APR 15	0B ON MAR 1 *	---	1965
1966	---	21 9 ON APR 15	0B ON MAR 1	18 100	1966
1967	---	16 1 B ON APR 12	0B ON MAR 1	14 400	1967
1968	---	11 4 B ON APR 21	0B ON MAR 1	11 300	1968
1969	---	19 1 ON AUG 25	0B ON MAR 1	12 400	1969
1970	---	24 7 B ON APR 10	0B ON MAR 1	26 500	1970
1971	22 4 AT 21 29 CST ON APR 19	26 9 B ON APR 25	0B ON MAR 1	32 200	1971
1972	24 9 B AT 15 10 CST ON APR 15	21 8 ON APR 11	0B ON MAR 1	18 300	1972
1973	6 688 AT 15 16 CST ON MAR 23	27 3 B ON APR 15	0B ON MAR 1	15 000	1973
1974	51 3 AT 17 22 CST ON APR 21 *	5 728 ON MAR 23	0B ON MAR 1	4 430	1974
1975	4 08 AT 06 06 CST ON APR 23	50 1 ON APR 21	0B ON MAR 1	51 200	1975
1976	---	3 85 ON APR 23	0B ON MAR 1	4 070	1976
1977	2 49 AT 07 00 CST ON APR 10	24 1 B ON APR 7	0B ON MAR 1	11 900	1977
1978	---	2 21 ON APR 10	0B ON MAR 1	2 140	1978
1979	---	17 9 B ON APR 12	0B ON MAR 1	17 800	1979
1980	5 25 AT 22 10 CST ON APR 11	50 7 ON APR 21 *	0B ON MAR 1	44 400	1980
1981	---	4 728 ON APR 12	0B ON MAR 1	3 050	1981
1982	---	1 388 ON MAR 24	0B ON MAR 1	1 830	1982
1983	26 4 AT 20 58 CST ON APR 4	14 5 B ON APR 13	0B ON MAR 1	8 230	1983
1984	4 568 AT 09 56 CST ON APR 3	23 7 B ON APR 5	0B ON MAR 1	16 900	1984
1985	16 3 AT 17 03 CST ON AUG 17	3 218 ON MAR 26	0B ON MAR 1	1 590	1985
1986	31 9 AT 05 03 CST ON APR 1	9 198 ON MAR 26	0B ON MAR 1	10 100	1986
		28 6 B ON MAR 31	0B ON MAR 1	25 100	
				16 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO 05UA003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	21 9	15 7	9 88	6 27	---	---	---	---	1971
1972	---	---	---	---	---	32 1	18 4	9 40	5 19	4 53	3 76	2 78	---	1972
1973	2 57	2 20	3 02	10 0	34 0	34 8	31 1	12 6	7 12	17 5	14 6	11 9	15 2	1973
1974	9 32	5 80	4 92	17 6	74 8	46 4	---	---	---	---	---	---	---	1974
1975	2 49	2 27	2 30	---	---	---	37 0	23 4	20 3	19 3	15 4	7 28	---	1975
1976	5 22	4 46	3 96	11 2	9 24	15 8	20 0	8 81	4 79	4 28	3 30	2 64	7 82	1976
1977	2 41	2 21	2 05	8 56	19 6	18 4	18 4	21 2	29 0	21 8	16 8	8 75	14 2	1977
1978	5 48	3 59	2 93	7 24	18 8	11 5	8 81	---	5 25	14 0	20 9	11 4	---	1978
1979	6 36	4 73	3 97	7 17	58 0	---	---	20 8	13 1	16 0	20 9	13 7	---	1979
1980	8 29	6 04	4 92	15 2	27 0	13 5	5 78	4 23	8 78	14 9	8 36	5 45	10 2	1980
1981	3 83	2 82	2 17	3 92	16 7	20 2	20 5	18 0	16 0	26 2	33 8	21 3	15 5	1981
1982	11 4	6 50	4 12	---	---	48 7	30 8	20 0	12 2	24 8	20 9	13 7	---	1982
1983	9 62	3 32	0 833	9 87	---	---	---	---	---	11 0	10 7	7 60	---	1983
1984	5 35	4 38	3 72	22 5	38 8	21 7	11 2	6 46	4 06	6 17	7 40	6 39	11 4	1984
1985	6 08R	5 38R	4 17 R	11 1 R	29 2 R	45 2R	43 1 R	26 3 R	22 6 R	23 9 R	18 4 R	8 32R	20 4 R	1985
1986	4 78	3 57	3 02	17 4	58 7	36 6	19 1	14 7	7 66	9 06	3 38	1 89	15 1	1986
	5 94R	4 10R	3 29 R	11 9 R	34 9 R	28 3R	21 5 R	15 1 R	11 7 R	15 2 R	14 2 R	8 79R	13 7	MEAN

LOCATION - LAT 53 47 10 N DRAINAGE AREA 4 500 km^2
LONG 97 40 20 W NATURAL FLOW

R - REVISED SINCE JAN 1986

REMARKS - DISCHARGE RECORDS PRIOR TO JUN 1972 WERE OBTAINED AT LAT 53 48 30 LONG 097 42 40, AT FIRST PITCH ABOVE DIAMOND RAPIDS

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO 05UA003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	93 4 AT 19 10 CST ON APR 30	44 2 ON JUL 8	2 158 ON FEB 19	479 000	1974
1975	---	92 6 ON MAY 1 *	---	---	1975
1976	36 0 AT 14 00 CST ON JUN 29	---	---	---	1976
1977	---	35 7 ON JUN 29	2 518 ON DEC 31	247 000	1977
1978	30 0 AT 14 00 CST ON APR 28	32 3 ON SEP 4	1 938 ON APR 5	448 000	1978
1979	---	29 4 ON APR 28	2 928 ON MAR 5	---	1979
1980	---	---	3 628 ON APR 6	---	1980
1981	40 8 AT 12 30 CST ON NOV 6	39 8E ON APR 25	2 41 ON AUG 20	323 000	1981
1982	---	39 7 ON NOV 6	1 798 ON APR 4 *	490 000	1982
1983	111 AT 08 30 CST ON MAY 24 *	---	3 538 ON APR 4	---	1983
1984	42 1 AT 17 50 CST ON MAY 6	---	---	---	1984
1985	88 3 ON JUN 30	42 1 ON MAY 7	3 438 ON MAR 30	359 000	1985
1986	76 6 ON MAY 20	67 5R ON JUN 30	2 958R ON APR 11	543 000R	1986
		75 0 ON MAY 20	1 828 ON DEC 29	475 000	MEAN
				433 000R	

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1 1986

HALES CREEK NEAR HARDING - STATION NO. 05MG011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	0	0	0	2.82	0.140	0.043	0	0.020	0.405	0.015	0.007	0	0.284	1975
1976	0	0	0	3.80	0.028	0.186	0.003	0	0	0	0	0	0.329	1976
1977	0	0	0.017	0.015	0.006	0.001	0.015	0.003	0.002	0.001	0.004	0.001	0.005	1977
MEAN	0	0	0.006	2.21	0.058	0.077	0.006	0.008	0.136	0.005	0.004	0	0.206	MEAN

LOCATION - LAT 49 54 46 N DRAINAGE AREA, 110 km²
LONG 100 30 26 W NATURAL FLOW

HALES CREEK NEAR HARDING - STATION NO. 05MG011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1975	47.6 AT 17:55 CST ON APR 27 *	21.3 ON APR 28	0B ON JAN 1 *	8 960	1975
1976	---	23.3 B ON APR 9 *	0B ON JAN 1	10 400	1976
1977	0.292 AT 02:40 CST ON JUL 14	0.127 ON JUL 13	0B ON JAN 1	171	1977
				6 510	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	0.008	0	0	0.013	0	0	0	---	---	0.003	1961
1962	---	---	0	0.088	0	0	0	0	0	0	---	---	0.011	1962
1963	---	---	0.088	0.017	0	0.034	0.015	0	0	0	---	---	0.019	1963
1964	---	---	0	0.062	0.024	0	0.008	0	0	0	---	---	0.011	1964
1965	---	---	0	0.053	0.009	0.002	0	0	0	0	---	---	0.008	1965
1966	---	---	0.001	0.058	0.030	0.001	0	0	0	0	---	---	0.011	1966
1967	---	---	0	0.294	0.117	0.005	0	0	0	0	---	---	0.051	1967
1968	---	---	0.023	0.015	0	0	0	0	0	0	---	---	0.005	1968
1969	---	---	0	0.604	0.024	0	0	0	0	0	---	---	0.077	1969
1970	---	---	0	0.149	0.075	0.001	0	0	0	0	---	---	0.028	1970
1971	---	---	0	0.043	0	0.104	0.025	0	0	0	---	---	0.021	1971
1972	---	---	0.013	0.131	0.019	0	0	0	0	0	---	---	0.020	1972
1973	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.235	0.031	0	0	0	0	0	---	---	0.033	1974
1975	---	---	0	0.226	0.205	0	0	0	0	0	---	---	0.054	1975
1976	---	---	0	0.544	0.008	0	0	0	0	0	---	---	0.068	1976
MEAN	---	---	0.008	0.158	0.034	0.009	0.004	0	0	0	---	---	0.026	MEAN

LOCATION - LAT 50 10 50 N DRAINAGE AREA, 48.2 km²
LONG 100 33 30 W NATURAL FLOW

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---	0.402 ON JUL 20	0 ON MAR 1 *	54.5	1961
1962	---	1.19 ON APR 18	0 ON MAR 1	228	1962
1963	---	0.714 ON MAR 29	0B ON MAR 1	408	1963
1964	---	0.281 ON APR 15	0 ON MAR 1	241	1964
1965	---	0.4908 ON APR 12	0B ON MAR 1	168	1965
1966	---	0.181 ON APR 22	0B ON MAR 1	238	1966
1967	---	1.27 B ON APR 17	0B ON MAR 1	1 090	1967
1968	---	0.1938 ON MAR 27	0B ON MAR 1	99.1	1968
1969	---	1.57 ON APR 13 *	0B ON MAR 1	1 820	1969
1970	---	0.5438 ON APR 12	0B ON MAR 1	589	1970
1971	---	0.558 ON JUN 9	0B ON MAR 1	447	1971
1972	---	0.368 ON APR 9	0B ON MAR 1	426	1972
1973	---	0.0148 ON MAR 9	0B ON MAR 1	3.80	1973
1974	---	0.915 ON APR 20	0B ON MAR 1	692	1974
1975	---	0.824 ON APR 28	0B ON MAR 1	1 140	1975
1976	---	1.48 ON APR 17	0B ON MAR 1	1 430	1976
				555	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO 04AA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	---	---	---	---	1957
1958	4.58	4.64	5.96	15.8	24.3	37.0	40.5	34.7	18.1	8.52	4.84	4.41	---	1958
1959	21.6	22.2	24.5	30.6	74.2	141	155	111	147	141	110	91.7	89.4	1959
1960	75.1	60.6	49.6	48.7	72.2	93.8	80.7	58.4	43.7	35.1	25.5	17.9	55.1	1960
1961	14.2	12.3	11.7	17.0	40.7	46.1	38.1	27.5	23.7	25.0	26.3	---	---	1961
1962	---	---	---	---	37.8	56.4	48.8	28.5	28.6	29.7	27.9	---	---	1962
1963	---	---	---	---	67.6	93.5	88.2	41.2	29.0	25.6	18.3	12.1	---	1963
1964	9.80	9.16	9.06	9.22	36.4	67.2	40.8	26.3	25.4	30.1 R	34.4 R	---	---	1964
1965	---	---	---	21.4	55.7	119	126	88.2	65.6	66.4	59.6	48.2	---	1965
1966	36.7	28.8	24.3	23.4	41.6	116	180	109	78.5	59.5	46.1	39.8	65.6	1966
1967	35.4	28.3	20.3	23.9	34.3	162	130	68.5	43.0	34.9	27.0	27.6	53.1	1967
1968	29.1	19.5	24.3	26.1	38.3	85.1	91.1	86.5	73.1	76.9	70.6	54.8	56.4	1968
1969	45.5 R	44.8	57.3	57.7	58.7	58.3	43.3	34.6R	40.8	62.9	81.0	56.1	51.6R	1969
1970	48.9	42.4	41.9	42.3	48.5	82.3	74.7	87.8	56.1	55.4	71.9	68.4	56.8	1970
1971	65.4	61.4	54.2	52.2	71.0	72.1	81.6	53.7	45.7	36.9	40.2	49.7	55.3	1971
1972	60.4	51.8	41.8	43.7	71.2	80.5	86.2	54.4	43.3	36.8	25.2	18.1	48.2	1972
1973	13.8	10.8	15.8	23.6	35.7	48.9	48.9	44.8	39.7	41.7	42.9	37.3	33.8	1973
MEAN	35.4 R	30.8	28.3	29.8	48.4	80.3	77.8	58.8R	48.8	46.9 R	42.6 R	39.3	53.3	MEAN

LOCATION - LAT 54 57 40 N DRAINAGE AREA 8 420 km²
LONG 95 16 10 W NATURAL FLOW

R - REVISED SINCE JAN 1986

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO 04AA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957			---	---	1957
1958	---	43.0 ON JUL 25	---	---	1958
1959	---	34.5 ON NOV 11	4.538 ON JAN 1 *	813 000	1959
		169 ON JUL 6	21.1 B ON JAN 17	2 820 000	
1960	---				1960
1961	60.4 AT 00 30 EST ON JUN 15	98.8 ON JUN 13	15.7 B ON DEC 31	1 740 000	1961
1962	68.8 AT 00 30 EST ON JUN 30	47.8 ON JUN 7	11.4 B ON APR 11	---	1962
1963	---	81.2 ON JUN 28	---	---	1963
1964	---	100 ON JUN 8	---	---	1964
		83.3 ON JUN 8	---	---	
1965	---		---	---	1965
1966	---	138 ON JUN 28	---	---	1966
1967	---	200 ON JUL 13 *	22.7 B ON APR 8	2 070 000	1967
1968	---	181 ON JUN 22	18.4 B ON MAR 13	1 870 000	1968
1969	---	104 ON JUL 31	13.3 ON FEB 18	1 790 000	1969
		69.9 ON OCT 18	24.1 ON SEP 4	1 830 000R	
1970	78.4 AT 02 43 CST ON JUL 14	78.2 ON JUL 14	40.5 B ON FEB 11	1 790 000	1970
1971	83.8 AT 17 02 CST ON JUN 1 *	82.1 ON JUN 1	32.8 ON NOV 7	1 740 000	1971
1972	---	82.7E ON JUN 3	14.4 ON DEC 14	1 580 000	1972
1973	54.4 AT 18 35 CST ON JUN 22	53.0 ON JUL 10	9.408 ON FEB 21	1 070 000	1973
				1 680 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

HAYES RIVER BELOW GODS RIVER - STATION NO 04AB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

EAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
974	350	317	293	345	1 250	1 440	940	887	749	537	293	244	623	1974
975	232	225	217	325	1 320	843	812	828	829	---	---	---	---	1975
976	341	280	257	305	---	521	724	598	902	590	385	231	---	1976
977	187	175	163	550	650	505	492	486	751	500	445	280	438	1977
978	210	186	170	183	1 210	891	1 020	1 170	1 220	1 150	676	435	714	1978
979	340	318	295	309	1 380	1 880	1 300	908	674	709	801	481	751	1979
980	394	331	291	511	1 020	778	738	827	984	921	422	321	612	1980
981	302	268	244	231	1 390	1 310	943	803	535	898	590	550	884	1981
982	514	466	418	372	1 880	1 250	856	685	723	720	598	456	739	1982
983	393	348	311	283	1 450	2 340	989	880	---	987	650	423	---	1983
984	337	298	276	---	---	1 080	879	382	434	481	413	387	---	1984
985	307	282	219	470	1 630	2 810	1 710	846	737	945	888	437	907	1985
986	339	301	281	276	---	1 080	944	1 080	844	729	450	339	---	1986
AN	327	290	264	347	1 320	1 250	904	761	782	781	514	380	882	MEAN

LOCATION - LAT 58 25 55 N DRAINAGE AREA 103 000 km²
LONG 92 47 19 W NATURAL FLOW

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	1 870E ON JUN 10	2358 ON DEC 31	19 800 000	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	1 180E ON APR 25	1578 ON MAR 31 *	13 900 000	1977
1978	---	2 320E ON MAY 15	1858 ON MAR 23	22 500 000	1978
1979	---	2 520E ON MAY 27	2788 ON APR 7	23 700 000	1979
1980	---	1 840E ON MAY 3	2798 ON APR 3	19 400 000	1980
1981	---	2 910E ON MAY 19	2288 ON APR 19	21 800 000	1981
1982	---	3 050E ON MAY 5	3508 ON APR 27	23 000 000	1982
1983	---	4 230E ON MAY 29 *	2608 ON MAY 15	---	1983
1984	---	---	---	---	1984
1985	3 900 AT 17:35 CST ON JUN 27 *	3 880 ON JUN 27	1928 ON APR 14	28 600 000	1985
1986	---	---	2758 ON APR 3	---	1986
				21 500 000	MEAN

E - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	28.1	21.1	23.4	37.4	62.7	96.7	80.5	55.6	53.0	47.5	40.0R	24.3R	48.5R	1974
1975	15.9	16.6	18.4	24.1	48.0	54.6	45.4	38.1	33.8	34.4	31.5	19.6	31.9	1975
1976	15.7	14.3	13.2	21.6	25.3	21.8	19.3	19.5	23.0	19.8	15.0	12.3	18.5	1976
1977	11.2	10.7	12.0	24.4	43.4	44.2	41.4	37.4	38.5	43.3	40.0	25.7	31.1	1977
1978	20.3	17.6	16.5	20.9	46.9	47.3	41.8	---	---	47.4	47.2	36.7	---	1978
1979	28.9	22.8	18.3	15.4	50.7	155	128	78.4	51.5	44.5	47.2	39.1	57.1	1979
1980	30.7	26.0	24.3	32.1	42.2	38.4	29.3	26.3	36.8	50.1	45.1	30.1	34.3	1980
1981	25.0	23.3	22.6	22.6	46.5	84.2	72.2	53.7	37.6	39.6	50.9	40.9	41.7	1981
1982	31.6	28.4	26.0	28.7	71.6	78.5	57.8	58.9	63.8	57.0	50.9	40.2	49.6	1982
1983	33.7	28.9	26.1	23.0	67.4	150	120	82.8	66.5	62.7	56.5	39.8	63.3	1983
1984	28.1	25.1	22.9	---	---	87.1	59.2	42.5	32.3	25.0	18.1	18.6	---	1984
1985	17.8	16.8	16.2	---	---	---	117	---	---	49.3	47.5	40.9	---	1985
1986	36.0	36.0	34.2	34.2	103	138	107	85.4	89.4	54.9	40.5	28.2	64.2	1986
MEAN	25.0	22.2	21.1	25.9	55.3	79.9	70.8	53.6	46.0	44.3	40.8R	30.5R	44.0	MEAN

LOCATION - LAT 54 51 23 N
LONG 95 07 12 W
DRAINAGE AREA, 8 880 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1980

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	110 AT 14 30 CST ON JUN 30	104 ON JUN 29	16.5B ON FEB 16	1 530 000R	1974
1975	83.4 AT 01 00 CST ON JUN 1F	55.4 ON JUN 11	14.9B ON JAN 19	1 010 000	1975
1976	---	29.2 ON APR 23	11.6B ON DEC 30	585 000	1976
1977	52.4 AT 14 52 CST ON JUN 10	50.1 ON MAY 21	10.5B ON FEB 23 *	981 000	1977
1978	58.9 AT 19 20 CST ON NOV 1	57.8 ON NOV 1	16.5B ON MAR 3	---	1978
1979	175 AT 23 00 CST ON JUN 17 *	173 ON JUN 17 *	14.6B ON APR 27	1 800 000	1979
1980	57.6 AT 11 10 CST ON OCT 27	55.2 ON OCT 27	20.4 ON AUG 20	1 080 000	1980
1981	89.1 AT 17 08 CST ON JUL 8	86.2 ON JUL 9	22.0B ON APR 18	1 320 000	1981
1982	86.2 AT 04 07 CST ON JUN 7	84.8 ON JUN 7	24.6B ON APR 8	1 560 000	1982
1983	158 AT 18 10 CST ON JUN 13	157 ON JUN 14	22.1B ON APR 23	2 000 000	1983
1984	71.6 ON JUN 23	71.0 ON JUN 23	---	---	1984
1985	130 AT 18 40 CST ON JUL 9	124 ON JUL 7	---	---	1985
1986	155 ON MAY 28	153 ON MAY 28	23.8B ON DEC 31	2 020 000	1986
				1 390 000R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

HESPELER FLOODWAY NEAR ROSENFELD - STATION NO 05DC016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	1.52	0.663	0.305	0.029	0.025	2.12	1.77	0.065	---	---	0.813	1968
1969	---	---	0	14.3	0.409	0.582	1.50	0.026	0	0.008	---	---	2.07	1969
1970	---	---	0	18.2	4.76	4.62	2.13	0.290	0.005	0.027	---	---	3.46	1970
1971	---	---	0	21.9	0.185	0.311	0.077	0.006	0	0.005	---	---	2.76	1971
1972	---	---	1.54	3.58	0.233	0.047	0	0	0	0	---	---	0.689	1972
1973	---	---	0.573	0.028	0.002	0.152	0.001	0	0.274	0.034	---	---	0.133	1973
1974	---	---	0	47.8	16.4	0.353	0.007	0	0	0	---	---	7.98	1974
1975	---	---	0	2.26	0.508	0.234	0.168	0.001	0	0	---	---	0.391	1975
1976	---	---	0	10.1	0.033	0.167	0.008	0.003	0.002	0	---	---	1.27	1976
1977	---	---	0.038	0.286	0.022	0.099	0.015	0	0.136	0.070	---	---	0.082	1977
1978	---	---	0.033	2.52	0.509	0.793	0.213	0	0.048	0	---	---	0.606	1978
1979	---	---	0	39.4	4.31	0.748	0.257	0.007	0.037	0.188	---	---	5.52	1979
1980	---	---	0	1.29	0.482	0.052	0.039	0.043	0.041	0.009	---	---	0.242	1980
1981	---	---	0.415	0.036	0.289	0.125	0.002	0	0	0	---	---	0.109	1981
1982	---	---	1.14	6.31	0.071	3.51	0.130	0.028	0	0.211	---	---	1.40	1982
1983	---	---	1.39	9.80	0.082	0.205	0.091	0	0	0	---	---	1.40	1983
1984	---	---	0.276	0.381	0.015	0.132	0	0	0	0	---	---	0.100	1984
1985	---	---	4.05	0.268	0.009	0.131	0.022	0.537	0.053	0.223	---	---	0.889	1985
1986	---	---	4.22	1.38	2.17	0.089	0.181	0.587	0	0	---	---	1.08	1986
MEAN	---	---	0.800	9.36	1.62	0.650	0.257	0.192	0.125	0.044	---	---	1.81	MEAN

LOCATION - LAT 49 15 10 N
LONG 97 33 00 W NATURAL FLOW

HESPELER FLOODWAY NEAR ROSENFELD - STATION NO 05DC016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	17.8 B ON MAR 27	0B ON MAR 1 *	17 200	1968
1969	---	81.6 ON APR 11	0B ON MAR 1	43 800	1969
1970	---	58.6 ON APR 26			
1971	---	182 B ON APR 11	0B ON MAR 1	73 300	1970
1972	---	9.858 ON APR 15	0B ON MAR 1	58 400	1971
1973	---	8.29 ON SEP 24	0B ON MAR 1	14 200	1972
1974	---	254 ON APR 17	0B ON MAR 1	2 820	1973
1975	---	9.158 ON APR 17	0B ON MAR 1	189 000	1974
1976	---	55.8 B ON APR 6	0B ON MAR 1	8 280	1975
1977	---	1.278 ON APR 9	0B ON MAR 1	26 900	1976
1978	---	10.5 B ON APR 5	0B ON MAR 1	1 740	1977
1979	---	288 ON APR 20 *	0B ON MAR 1	10 700	1978
1980	14.4 AT 12 27 CST ON MAY 29	9.09 ON MAY 29	0B ON MAR 1	117 000	1979
1981	2.77 AT 01 55 CST ON MAY 26	2.23 ON MAY 26	0 ON APR 27	5 110	1980
1982	---	32.5 B ON APR 13	0B ON MAR 1	2 310	1981
1983	62.0 B AT 11 00 CST ON APR 7 *	53.4 B ON APR 7	0B ON MAR 1	29 700	1982
1984	---	2.418 ON MAR 28	0B ON MAR 1	29 800	1983
1985	---	30.1 B ON MAR 19	0B ON MAR 1	2 110	1984
1986	---	29.3 B ON MAR 28	0B ON MAR 1	14 200	1985
				23 000	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		34 200	MEAN

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO 05DA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

EAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
961	---	---	---	---	---	---	---	---	---	---	---	---	---	1961
962	0	0	0	0.198	0.008	0.002	0	0	0	0	0	0	0.017	1962
963	0	0	0.001	0	0	0.013	0	0	0	0	0	0	0.001	1963
964	0	0	0	0.289	0.017	0.012	0.001	0.003	0.010	0.007	0	0	0.026	1964
965	0	0	0	0.748	0.480	0.079	0.140	0.002	0	0	0	0	0.121	1965
966	0	0	0.282	0.028	0.051	0.001	0.047	0.002	0	0	0	0	0.033	1966
967	0	0	0.073	0.413	0.080	0	0	0	0	0	0	0	0.047	1967
968	0	0	0.004	0.002	0.001	0	0	0.484	0.474	0.014	0.005	0.001	0.082	1968
969	0	0	0	2.50	0.043	0.001	0.022	0	0	0	0	0	0.211	1969
970	0	0	0.001	0.824	0.784	0.008	0.551	0.033	0.003	0	0	0	0.185	1970
971	0	0	0	1.83	0.054	0.105	0.349	0.009	0	0	0	0	0.178	1971
972	0	0	0.888	0.374	0.037	0.023	0.020	0.001	0	0	0	0	0.096	1972
973	0	0	0.027	0.001	0.002	0.231	0.051	0	0.020	0.001	0	0	0.028	1973
974	0	0	0	3.31	1.24	0.158	0	0	0	0	0	0	0.392	1974
975	0	0	0	2.01	0.259	0.018	0.001	0	0	0	0	0	0.189	1975
976	0	0	0.204	1.54	0.023	0	0	0	0	0	0	0	0.145	1976
977	0	0	0	0.001	0	0	0	0	0	0	0	0	0	1977
978	0	0	0	0.709	0.012	0	0	0	0	0	0	0	0.059	1978
979	0	0	0	2.80	0.448	0.018	0	0	0	0	0	0	0.254	1979
980	0	0	0	0.177	0.001	0	0	0	0.030	0.030	0.015	0	0.021	1980
981	0	0.321	0.137	0.008	0.082	0.054	0.001	0	0	0	0	0	0.047	1981
982	0	0	0.130	0.522	0.150	0.007	0	0	0	0.003	0.003	0.029	0.070	1982
983	0	0	0.080	0.889	0.082	0.006	0.037	0	0	0	0	0	0.089	1983
984	0	0	0.239	0.131	0.183	0	0	0	0	0	0	0	0.047	1984
985	0	0	0.429	0.038	0.001	0.001	0	0	0	0	0	0	0.040	1985
986	0	0	0.194	0.173	0.070	0.285	0.025	0	0	0	0	0	0.081	1986
AN	0	0.013	0.099	0.763	0.184	0.040	0.050	0.021	0.021	0.002	0.001	0.001	0.093	MEAN

LOCATION - LAT 48 57 10 N DRAINAGE AREA, 68.1 km^2 INTERNATIONAL GAUGING STATION
LONG 89 25 35 W NATURAL FLOW

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05DA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---			
1962	1.13 ON APR 6	0.891 ON APR 5	0 ON OCT 1 *	---	1961
1963	0.252 AT 18:30 CST ON JUL 25	0.074 ON JUN 25	0 ON JAN 1	538	1962
1964	0.9088 ON APR 9	0.8508 ON APR 9	0 ON JAN 1	37.1	1963
			0 ON JAN 1	832	1964
1965	3.51 AT 03:00 CST ON APR 11	3.26 ON APR 11			
1966	1.87 B AT 20:00 CST ON MAR 14	1.39 B ON MAR 15	0 ON JAN 1	3 810	1965
1967	3.62 AT 10:00 CST ON APR 21	2.44 ON APR 21	0 ON JAN 1	1 050	1966
1968	6.17 AT 14:30 CST ON AUG 24	3.62 ON AUG 25	0.08 ON JAN 1	1 480	1967
1969	19.8 B ON APR 12	17.0 B ON APR 12	0.08 ON JAN 1	2 800	1968
			0.08 ON JAN 1	6 670	1969
1970	8.98 AT 11:30 CST ON APR 29	8.04 ON APR 29	0.08 ON JAN 1	5 840	1970
1971	18.0 AT 23:00 CST ON APR 10	10.5 ON APR 10	0 ON JAN 1	5 800	1971
1972	10.0 AT 20:00 CST ON MAR 16	4.47 ON MAR 17	0 ON JAN 1	3 020	1972
1973	1.47 AT 04:00 CST ON JUN 20	1.27 ON JUN 21	0 ON JAN 1	870	1973
1974	30.0 AT 08:00 CST ON APR 21	23.6 ON APR 21	0 ON JAN 1	12 400	1974
1975	11.5 AT 22:00 CST ON APR 28	9.91 ON APR 14	0 ON JAN 1	5 970	1975
1976	9.34 AT 23:00 CST ON APR 1	6.23 ON MAR 31	0 ON JAN 1	4 810	1976
1977	---	0.0038 ON APR 9	0.08 ON JAN 1	2.33	1977
1978	---	4.25 B ON APR 6	0.08 ON JAN 1	1 870	1978
1979	34.0 B AT 10:50 CST ON APR 23 *	28.3 B ON APR 23 *	0.08 ON JAN 1	8 000	1979
1980	2.55 AT 23:15 CST ON APR 3	1.64 ON APR 4	0.08 ON JAN 1	858	1980
1981	2.69 B AT 20:45 CST ON FEB 21	1.81 B ON FEB 21	0.08 ON JAN 1	1 470	1981
1982	---	2.61 ON MAR 31	0.08 ON JAN 1	2 210	1982
1983	4.39 B AT 11:30 CST ON APR 2	2.27 B ON APR 6	0.08 ON JAN 1	2 800	1983
1984	7.48 AT 19:15 CST ON MAR 24	2.01 ON MAR 24	0 ON JAN 1	1 470	1984
1985	---				
1986	7.82 AT 14:00 CST ON JUN 21	1.70 B ON MAR 17	0 ON JAN 1	1 250	1985
		2.62 ON JUN 21	0 ON JAN 1	1 810	1986
				3 080	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---									
1959	---	---	0.008	13.8	11.2	0.243	3.20	0.286	0.291	0.458	---	---	---	1958
						3.81	0.831	0.361	0.384	1.54	---	---	3.96	1959
1960	---	---	0.196	34.3	7.20	1.49	0.395	0.354	0.345	0.405	---	---		
1961	---	---	1.13	5.50	1.50	0.380	0.191	0.113	0.295	0.335	---	---	5.50	1960
1962	---	---	0.074	7.74	2.30	1.88	0.269	0.536	0.304	0.529	---	---	1.17	1961
1963	---	---	1.33	14.1	2.60	18.5	1.44	0.597	0.487	0.482	---	---	1.89	1962
1964	---	---	0.212	4.74	2.03	1.04	0.383	0.486	0.481	0.521	---	---	4.87	1963
													1.23	1964
1965	---	---	0.081	6.12	4.48	2.35	0.833	0.408	0.533	0.464	---	---		
1966	---	---	0.274	4.51	4.47	0.714	0.585	0.253	0.273	0.270	---	---	1.89	1965
1967	---	---	0.167	18.6	3.41	0.697	0.464	0.298	0.180	0.267	---	---	1.41	1966
1968	---	---	0.487	5.50	1.32	0.623	1.22	0.870	1.61	1.01	---	---	2.97	1967
1969	---	---	0.245	15.5	1.77	1.20	0.430	0.355	0.478	0.486	---	---	1.57	1968
													2.52	1969
1970	---	---	0.159	10.1	4.28	0.871	0.380	0.240	0.218	0.252	---	---		
1971	---	---	0.125	5.88	0.482	0.413	0.426	0.200	0.177	0.228	---	---	2.04	1970
1972	---	---	0.127	10.2	0.741	0.331	0.338	0.263	0.223	0.236	---	---	0.976	1971
1973	---	---	1.57	0.697	0.363	1.59	0.436	0.588	2.62	3.41	---	---	1.54	1972
1974	---	---	8.297	49.8	21.5	2.40	0.351	0.388	0.310	0.351	---	---	1.41	1973
													9.32	1974
1975	---	---	0.193	4.61	1.16	0.597	0.367	9.40	8.92	3.57	---	---		
1976	---	---	0.274	41.7	2.32	1.01	0.488	0.213	0.174	0.192	---	---	3.71	1975
1977	---	---	0.091	0.983	0.497	0.618	0.755	0.232	1.79	0.988	---	---	5.70	1976
1978	---	---	0.222	24.7	1.89	0.941	0.583	0.306	0.329	0.334	---	---	0.735	1977
1979	---	---	0.184	30.3	11.1	3.63	0.789	0.312	0.438	0.304	---	---	3.62	1978
													5.81	1979
1980	---	---	0.207	7.42	0.490	0.284	0.225	0.553	1.02	1.02	---	---		
1981	---	---	1.26	1.06	0.609	0.757	0.288	0.459	1.25	1.96	---	---	1.38	1980
1982	---	---	0.540	9.83	1.67	1.59	1.82	1.18	0.378	0.723	---	---	0.951	1981
1983	---	---	0.188	13.9	0.991	2.45	1.17	0.176	0.144	0.265	---	---	2.19	1982
1984	---	---	0.410	2.67	1.08	1.26	0.307	0.204	0.729	0.602	---	---	2.37	1983
													0.838	1984
1985	---	---	1.80	6.38	0.749	0.400	0.433	6.09	1.20	2.27	---	---		
1986	---	---	3.98	30.2	11.0	1.02	0.680	0.315	0.275	0.312	---	---	2.41	1985
													5.92	1986
MEAN	---	---	0.566	13.6	3.69	1.83	0.691	0.897	0.907	0.820	---	---	2.65	MEAN

LOCATION - LAT 50 57 35 N LONG 97 02 10 W DRAINAGE AREA 1 440 km^2 NATURAL FLOW

ICELANDIC RIVER NEAR RIVERTON - STATION NO 05SC002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	...	...	...	...	1958
1959	...	...	0 8 B ON MAR 1 *	83 800	1959
1960	...	38.8 B ON APR 12			
1961	...	104 0% APR 21	0 057 ON AUG 15	116 000	1960
1962	...	15 1 ON APR 22	0 071 ON MAR 1	24 700	1961
1963	...	49 8 B ON APR 22	0 0718 ON MAR 1	35 800	1962
1964	...	73 6 B ON APR 9	0 1428 ON MAR 1	103 000	1963
		15 7 B ON APR 16	0 204 ON AUG 9	26 000	1964
1965	...				
1966	...	34 3 B ON APR 14	0 0578 ON MAR 1	40 100	1965
1967	...	20 6 ON MAY 6	0 1108 ON MAR 1	30 000	1966
1968	...	83 3 B ON APR 16	0 091 ON JUL 28	62 800	1967
1969	...	18 0 B ON APR 9	0 1818 ON MAR 1	33 300	1968
		85 0 B ON APR 13	0 1708 ON APR 7	53 300	1969
1970	...				
1971	...	35 7 B ON APR 19		43 300	1970
1972	...	41 3 ON APR 19	0 1368 ON APR 6	20 700	1971
1973	...	45 0 B ON APR 18	0 1258 ON MAR 1	32 500	1972
1974	...	16 1 ON OCT 5	0 007 ON AUG 19	29 800	1973
		203 ON APR 20 *	0 002 ON MAY 19	197 000	1974
1975	...		0 181 ON AUG 10		
1976	...	52 1 ON AUG 26		78 500	1975
1977	...	123 ON APR 8	0 1428 ON MAR 1	120 000	1976
1978	...	5 89 ON SEP 10	0 110 ON OCT 30	15 800	1977
1979	...	82 7 ON APR 18	0 0068 ON MAR 1	76 500	1978
		156 ON APR 23	0 181 ON AUG 29	123 000	1979
1980	34 1 AT 20 52 CST ON APR 15		0 1368 ON MAR 1		
1981	5 99 AT 20 45 CST ON SEP 7	22 7 B ON APR 15		29 200	1980
1982	51 6 AT 21 00 CST ON APR 16	5 120 ON MAR 31	0 035 ON MAY 28	20 100	1981
1983	85 3 B AT 22 50 CST ON APR 7	45 1 ON APR 16	0 0728 ON MAR 10	46 500	1982
1984	9 778 AT 15 48 CST ON APR 4	55 5 B ON APR 7	0 223 ON SEP 17	50 200	1983
		6 848 ON APR 7	0 122 ON SEP 13	17 700	1984
1985	23 7 AT 20 59 CST ON APR 3		0 0418 ON MAR 16		
1986	187 AT 05 10 CST ON APR 2 *	22 5 B ON APR 3		51 000	1985
		129 B ON APR 2	0 0468 ON MAR 9	125 000	1986
			0 1598 ON MAR 13		
				60 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	16.7	15.1	14.4	45.2	74.7	87.2	53.6	43.7	44.5	53.8	56.0	---	1933
1934	53.6	49.5	42.3	39.1	70.9	211	207	141	103	107	104	85.7	101	1934
1935	71.6	59.9	50.7	48.2	84.8	95.5	87.6	70.4	88.0	90.3	111	99.8	78.4	1935
1936	79.9	61.6	50.5	39.9	36.5	110	154	109	77.0	85.1	57.8	52.5	74.6	1936
1937	45.4	38.9	33.7	31.4	124	252	231	157	113	107	112	103	113	1937
1938	82.0	66.3	54.0	47.5	96.0	145	157	136	104	78.2	60.8	53.4	80.2	1938
1939	45.4	38.2	32.8	29.3	36.6	82.8	146	124	88.9	73.7	66.8	62.5	69.4	1939
1940	56.1	47.3	39.3	33.9	59.3	87.7	89.7	73.8	55.5	50.7	49.8	47.3	57.6	1940
1941	44.0	40.7	37.6	36.0	115	162	141	101	88.1	56.6	47.9	42.0	74.6	1941
1942	40.0	38.2	36.5	37.4	55.9	58.6	73.7	85.1	92.1	80.7	69.4	62.3	61.8	1942
1943	55.3	49.7	40.8	35.3	71.5	107	108	89.0	82.5	84.9	74.8	65.7	72.2	1943
1944	56.0	48.1	39.1	32.4	43.3	54.4	70.6	87.0	71.0	61.2	78.4	70.7	59.4	1944
1945	61.8	53.2	44.5	43.1	68.4	148	217	187	139	121	106	92.8	107	1945
1946	70.8	58.7	48.3	46.8	91.9	111	148	162	120	95.5	87.4	74.0	93.5	1946
1947	65.2	56.7	46.6	37.6	62.4	188	237	189	184	153	127	98.8	118	1947
1948	80.6	63.2	51.6	42.5	58.1	59.7	53.7	53.2	43.4	32.7	28.8	25.3	49.4	1948
1949	23.7	22.6	20.4	20.2	43.2	74.3	87.2	94.4	110	193	206	174	89.5	1949
1950	134	88.9	74.6	59.7	75.7	177	216	212	158	122	109	91.5	128	1950
1951	74.8	61.9	52.7	47.3	89.5	124	117	128	147	187	153	119	108	1951
1952	88.0	88.3	54.6	52.2	109	164	219	233	211	191	168	139	142	1952
1953	104	78.0	63.4	54.7	80.6	125	235	186	128	96.8	89.9	82.0	110	1953
1954	72.4	60.9	50.8	41.9	52.5	105	126	101	77.1	72.1	73.0	70.9	75.3	1954
1955	63.2	54.5	46.5	50.0	123	158	173	155	122	114	108	96.1	106	1955
1956	81.3	66.5	57.9	48.4	59.1	158	149	98.9	86.8	64.4	59.3	62.0	80.4	1956
1957	58.2	50.9	45.3	41.8	89.7	138	189	138	102	76.8	61.1	62.0	86.1	1957
1958	44.9	38.9	35.5	43.0	82.9	125	115	104	85.0	76.1	77.5	78.1	75.9	1958
1959	70.4	59.1	48.5	43.1	141	284	276	203	144	115	101	87.8	132	1959
1960	73.5	62.0	51.4	46.3	73.4	144	122	83.5	75.0	66.0	59.5	54.3	78.0	1960
1961	45.5	37.4	31.8	30.0	45.5	60.3	54.7	44.9	35.8	31.7	36.8	43.2	41.7	1961
1962	42.3	37.2	31.5	28.2	80.1	119	103	73.5	55.6	55.8	56.8	60.3	60.7	1962
1963	58.1	51.9	46.9	44.3	85.8	164	146	103	88.0	75.7	86.3	89.0	83.3	1963
1964	52.2	44.3	40.8	39.1	114	157	123	91.8	89.9	86.7	92.1	88.3	74.4	1964
1965	44.7	37.1	33.6	33.6	74.3	---	---	---	---	175	158	142	---	1965
1966	131	123	99.3	88.0	87.2	189	201	157	128	103	91.2	81.1	123	1966
1967	69.4	80.5	68.3	68.6	87.4	274	280	205	132	94.9	76.2	68.3	119	1967
1968	62.2	56.5	45.4	38.5	85.6	184	181	181	158	141	128	111	113	1968
1969	86.9	89.2	66.6	52.9	78.9	89.8	82.8	97.6	148 R	222	208	183	113 R	1969
1970	123	94.2	89.2	57.3	84.3	117	155	138	104	106	126	126	109	1970
1971	106	87.9	71.5	65.2	140	180	169	139	95.1	89.9	85.1	80.8	104	1971
1972	55.5	47.8	40.5	35.7	94.2	128	107	87.6	86.2	57.2	52.7	49.4	88.6	1972
1973	46.3	41.7	37.7	38.3	87.2	146	154	122	85.3	84.2	95.2	90.9	86.0	1973
1974	72.9	63.0	59.3	52.3	79.2	133	118	108	84.0	69.5	61.6	57.6	80.0	1974
1975	58.0	53.0	47.8	42.8	73.5	147	144	135	134	130	109	88.2	97.1	1975
1976	75.7	63.4	53.5	49.4	57.0	---	---	---	---	40.5	30.9	29.8	---	1976
1977	30.5	30.2	28.7	31.8	51.8	57.8	59.2	74.2	79.4	81.4	73.4	65.6	55.6	1977
1978	57.3	50.0	44.5	45.3	87.6	81.6	79.7	77.2	75.7	103	132	122	78.1	1978
1979	96.0	75.1	62.4	57.2	102	210	208	175	126	113	118	107	121	1979
1980	88.6	74.2	63.0	---	---	---	72.7	58.5	52.4	60.9	63.9	60.5	---	1980
1981	65.8	48.2	42.6	38.3	47.8	84.6	85.2	77.8	61.2	63.8	74.2	76.5	61.4	1981
1982	70.6	61.8	54.1	---	---	126	132	128	104	87.9	82.0	81.4	---	1982
1983	77.0	68.4	59.5	52.0	108	186	196	156	108	83.4	77.0	72.7	104	1983
1984	65.7	58.9	50.9	51.1	85.2	112	118	92.5	85.6	57.1	52.4	54.8	72.1	1984
1985	52.2	47.7	43.3	---	---	---	---	---	141	108	91.3	78.1	---	1985
1986	68.4	60.3	52.6	52.8	118	145	114	93.7	72.9	66.6	62.8	58.7	80.7	1986
MEAN	67.7	56.7	47.8	43.5	80.3	135	142	121	98.8R	92.7	87.9	78.8	89.1	MEAN

LOCATION - LAT 54 03 34 N DRAINAGE AREA 14 000 km²
LONG 94 39 34 W NATURAL FLOW

R - REVISED SINCE JAN 1986

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO 04AC007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	78 7 ON JUN 20	13 7 ON APR 10 *	---	1933
1934	---	227 ON JUN 19	37 9 ON APR 12	3 200 000	1934
1935	---	114 ON NOV 22	43 6 ON APR 18	2 470 000	1935
1936	---	164 ON JUL 7	29 4 ON MAY 24	2 360 000	1936
1937	---	273 ON JUN 26	28 9 ON APR 14	3 580 000	1937
1938	---	182 ON JUL 7	46 4 ON APR 13	2 850 000	1938
1939	---	157 ON JUL 18	28 1 ON APR 20	2 190 000	1939
1940	---	95 7 ON JUN 29	32 0 ON APR 22	1 820 000	1940
1941	---	172 ON JUN 7	34 0 ON APR 15	2 350 000	1941
1942	---	95 7 ON AUG 28	35 1 ON APR 6	1 850 000	1942
1943	---	111 ON JUN 21	31 1 ON APR 19	2 270 000	1943
1944	---	84 4 ON OCT 16	29 7 ON APR 23	1 880 000	1944
1945	---	224 ON JUL 19	42 2 ON MAR 23	3 380 000	1945
1946	---	178 ON JUL 30	43 E ON APR 7	2 950 000	1946
1947	---	249 ON JUL 11	33 7 ON APR 28	3 710 000	1947
1948	---	85 9 ON JAN 1	24 3E ON DEC 31	1 560 000	1948
1949	---	216 ON OCT 30	18 9 ON APR 8	2 820 000	1949
1950	---	242 ON JUL 30	54 9 ON MAY 4	4 030 000	1950
1951	---	174 ON OCT 17	46 2 ON APR 22	3 410 000	1951
1952	---	247 ON AUG 4	46 7 ON APR 14	4 490 000	1952
1953	---	238 ON JUL 18	51 5 ON APR 22	3 470 000	1953
1954	---	128 ON JUL 7	37 4 ON MAY 7	2 370 000	1954
1955	---	183 ON JUL 19	41 9 ON APR 8	3 330 000	1955
1956	---	172 ON JUN 26	43 3 ON MAY 2	2 540 000	1956
1957	---	177 ON JUL 13	37 7 ON APR 19	2 710 000	1957
1958	---	129 ON JUN 18	33 4 ON MAR 30	2 380 000	1958
1959	---	300 ON JUN 30 *	41 3 ON APR 25	4 150 000	1959
1960	---	152 ON JUN 18	43 9 ON MAY 3	2 400 000	1960
1961	---	62 0 ON JUN 11	29 4 ON APR 18	1 310 000	1961
1962	---	125 ON JUN 18	27 4 ON APR 28	1 920 000	1962
1963	---	178 ON JUN 26	43 3 ON MAR 26	2 530 000	1963
1964	---	166 ON JUN 2	37 7 ON APR 8	2 350 000	1964
1965	---	---	---	---	---
1966	---	---	32 8 ON MAR 22	---	1965
1967	---	212 ON JUL 5	75 3 ON DEC 30	3 870 000	1966
1968	---	292 E ON JUN 19	45 0 ON MAR 24	3 780 000	1967
1969	237 AT 15 56 CST ON OCT 23 *	185 ON AUG 2	35 7 ON APR 15	3 570 000	1968
1970	185 AT 08 48 CST ON JUL 26	237 ON OCT 23	48 1 ON APR 14	3 570 000R	1969
1971	---	184 ON JUL 21	54 7 ON APR 22	3 420 000	1970
1972	138 AT 21 36 CST ON JUN 13	187 ON JUN 8	59 5E ON DEC 21	3 290 000	1971
1973	160 AT 23 30 CST ON JUL 11	135 ON JUN 18	32 3 ON APR 14	2 170 000	1972
1974	140 AT 03 50 CST ON JUN 21	158 ON JUL 9	35 1 ON APR 3	2 710 000	1973
1975	188 AT 01 11 CST ON JUN 27	139 ON JUN 15	49 5 ON APR 25	2 520 000	1974
1976	---	184 ON JUN 25	41 1 ON APR 18	3 080 000	1975
1977	83 0 AT 17 48 CST ON SEP 16	---	---	---	1976
1978	137 AT 20 17 CST ON NOV 18	83 0 ON OCT 9	29 4E ON APR 5	1 780 000	1977
1979	225 AT 18 30 CST ON JUN 27	138 ON NOV 18	43 0 ON MAR 23	2 480 000	1978
1980	---	228 ON JUN 28	53 8 ON APR 15	3 830 000	1979
1981	---	---	---	---	---
1982	140 AT 18 30 CST ON JUN 23	85 9E ON JUL 19	36 9 ON APR 19	1 940 000	1980
1983	209 AT 13 46 CST ON JUL 16	138 ON JUN 23	---	---	1981
1984	125 AT 08 44 CST ON JUN 30	202 ON JUL 15	48 5 ON APR 20	3 280 000	1982
1985	---	124 ON JUN 28	44 8 ON APR 5	2 280 000	1983
1986	157 AT 13 42 CST ON JUN 2	---	---	---	1984
		155 ON MAY 29	48 9 ON APR 13	2 540 000	1985
				2 810 000R	1986
					MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO 05MF022

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

EAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
953	---	---	---	---	0 378	0 289	0 004	0	0 003	0 003	0	0	---	1953
954	0 007	0 011	0 011	0 308	0 448	0 003	0	0	0	0	0	0	0 085	1954
955	0	0	0	0 057	0 838	0 253	0 020	0 193	0 531	0 192	0 081	0 054	0 157	1955
956	0 030	0 027	0 025	0 223	0 810	0 281	0 104	0 038	0 013	0	0	0	0 130	1956
957	0	0	0	0	0 636	0 095	0 014	0 003	0	0 001	0 005	0 007	0 085	1957
958	0	0	0	0	0 397	0 293	0 278	0 084	0 414	0 055	0 045	0 033	0 134	1958
959	0 022	0 027	0 028	0 179	0 177	0 458	0 782	0 068	0 028	0 037	0 082	0 029	0 155	1959
970	0	0	0	0	1 19	0 301	0 150	0 019	0 028	0 083	0 285	0 111	0 179	1970
EAN	0 008	0 008	0 009	0 109	0 585	0 248	0 189	0 051	0 127	0 044	0 055	0 029	0 129	MEAN

LOCATION - LAT 50 52 20 N DRAINAGE AREA 18 9 km^2
LONG 100 02 48 W NATURAL FLOW

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO 05MF022

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	1.77 ON APR 28	0E ON AUG 1 *	---	1964
			0 ON JUL 1	2 070	
1965	---	1.39 ON MAY 2	0B ON JAN 1	5 270	1965
1966	---	1.30 ON MAY 19	0E ON SEP 23	4 100	1966
1967	---	1.83 ON MAY 30	0B ON JAN 1	2 040	1967
1968	---	2.34 ON MAY 25	0B ON JAN 1	4 220	1968
1969	---	2.60E ON JUN 29 *	0 ON MAY 7	5 010	1969
1970	---	2.29 ON MAY 18	0B ON JAN 1	5 840	1970
				4 050	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

JACKSON CREEK NEAR MELITA - STATION NO 05NF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.058	---	---	---	---	---	---	---	---	1936
1975	---	---	0	2.68	1.86	0.713	0.085	0	0.052	0.550	---	---	0.737	1975
1976	---	---	0.006	16.9	0.916	0.044	0.027	0	0	0	---	---	2.20	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.006	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.244	0.343	0.003	0	0	0	0	---	---	0.074	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.173	0.009	0	0	0	0	0	---	---	0.022	1982
1983	---	---	0.022	0.891	0.068	0.003	0	0	0	0	---	---	0.121	1983
1984	---	---	0	0	0.002	0	0	0	0	0	---	---	0	1984
1985	---	---	0.341	0.102	0.004	0	0	0	0	0	---	---	0.056	1985
1986	---	---	0.072	0.238	0.272	0.009	0.005	0.001	0	0	---	---	0.075	1986
MEAN	---	---	0.037	1.77	0.271	0.064	0.010	0	0.004	0.045	---	---	0.274	MEAN

LOCATION - LAT 49 18 00 N DRAINAGE AREA 480 km^2
LONG 100 57 50 W NATURAL FLOW

JACKSON CREEK NEAR MELITA - STATION NO 05NF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1975	---	10.6 ON APR 28	0B ON MAR 1 *	15 600	1975
1976	---	36.2 B ON APR 11 *	0 ON JUL 21	46 600	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0.0458 ON APR 10	0B ON MAR 1	15.7	1978
1979	2.16 AT 06 00 CST ON APR 22	1.64 ON APR 22	0B ON MAR 1	1 580	1979
1980	---	0 B ON MAR 1	0B ON MAR 1	0	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	0.954 AT 10 00 CST ON APR 17	0.783 ON APR 19	0B ON MAR 1	472	1982
1983	3.35 B AT 07 34 CST ON APR 13 *	1.85 B ON APR 13	0B ON MAR 1	2 550	1983
1984	0.019 AT 12 48 CST ON MAY 7	0.012 ON MAY 9	0B ON MAR 1	4.53	1984
1985	---	2.50 B ON MAR 17	0B ON MAR 1	1 190	1985
1986	0.788 AT 08 44 CST ON MAR 29	0.701 ON MAY 12	0B ON MAR 1	1 580	1986
				5 800	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

JORDAN CREEK NEAR PLUMAS - STATION NO 05LL008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1950	---	---	0	1.71	0.549	0.036	0	0	0	0	---	---	0.283	1950
1951	---	---	0	0	0	0	0	0	0	0	---	---	0	1951
1952	---	---	0	0.382	0.172	0.073	0	0	0	0	---	---	0.079	1952
1953	---	---	0.017	0.327	0.083	0.381	0.045	0	0	0	---	---	0.100	1953
1954	---	---	0	0.046	0.021	0.001	0	0	0	0	---	---	0.008	1954
1955	---	---	0	1.34	0.187	0.074	0.002	0	0.042	0.012	---	---	0.202	1955
1956	---	---	0.253	1.05	0.333	0.028	0.002	0.001	0	0	---	---	0.206	1956
1957	---	---	0	1.21	0.811	0.021	0	0	0	0	---	---	0.253	1957
1958	---	---	0.022	0.020	0.010	0.001	0	0.018	0.035	0.002	---	---	0.013	1958
1959	---	---	0	1.83	0.186	0.055	0.276	0.131	0.043	0.036	---	---	0.316	1959
1970	---	---	0	2.79	2.70	0.188	0.017	0	0	0	---	---	0.705	1970
1971	---	---	0	0.156	0.029	0.841	0.903	0.078	0.003	0.080	---	---	0.258	1971
1972	---	---	0.198	1.52	0.152	0.013	0	0	0	0	---	---	0.232	1972
1973	---	---	0.010	0.001	0.005	0.002	0	0	0	0	---	---	0.002	1973
1974	---	---	0	2.47	2.58	0.154	0	0	0	0	---	---	0.548	1974
1975	---	---	0	0.222	0.130	0.018	0.058	0.124	0.722	0.438	---	---	0.212	1975
1976	---	---	0	4.30	0.227	0.001	0.008	0	0	0	---	---	0.556	1976
1977	---	---	0	0	0.001	0	0.001	0	0.001	0.001	---	---	0.001	1977
1978	---	---	0	0.155	0.028	0.009	0.002	0	0	0	---	---	0.024	1978
1979	---	---	0	2.07	2.50	0.113	0.002	0	0	0	---	---	0.584	1979
1980	---	---	0	0.028	0	0	0	0.007	0.008	0.012	---	---	0.007	1980
1981	---	---	0.002	0.004	0.006	0.035	0.015	0	0	0.004	---	---	0.008	1981
1982	---	---	0.084	0.587	0.041	0.021	0.009	0.005	0	0.003	---	---	0.080	1982
MEAN	---	---	0.026	0.956	0.488	0.068	0.056	0.018	0.037	0.025	---	---	0.208	MEAN

LOCATION - LAT 50 23 35 N DRAINAGE AREA 48.7 km²
LONG 99 02 44 W NATURAL FLOW

JORDAN CREEK NEAR PLUMAS - STATION NO 05LL008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1950	---	5.88 ON APR 18	0.08 ON MAR 1 e	5 990	1950
1951	---	0 ON MAR 1	0 ON MAR 1	0	1951
1952	---	2.02 B ON APR 21	0.08 ON MAR 1	1 680	1952
1953	---	1.80 ON JUN 10	0.08 ON MAR 1	2 120	1953
1954	---	0.2948 ON APR 11	0.08 ON MAR 1	177	1954
1955	---	4.73 B ON APR 13	0.08 ON MAR 1	4 270	1955
1956	---	4.54 B ON APR 1	0.08 ON MAR 1	4 360	1956
1957	---	3.48 ON APR 28	0.08 ON MAR 1	5 350	1957
1958	---	0.3238 ON MAR 28	0.08 ON MAR 1	284	1958
1959	---	5.40 ON APR 11	0.08 ON MAR 1	5 680	1959
1970	---	10.5 ON APR 29	0.08 ON MAR 1	14 800	1970
1971	---	3.06 ON JUN 21	0.08 ON MAR 1	5 480	1971
1972	---	4.33 B ON APR 13	0.08 ON MAR 1	4 820	1972
1973	---	0.0318 ON MAR 20	0.08 ON MAR 1	45.9	1973
1974	---	11.0 ON APR 18 e	0.08 ON MAR 1	13 700	1974
1975	---	3.34 ON SEP 20	0.08 ON MAR 1	4 490	1975
1976	---	10.8 B ON APR 7	0.08 ON MAR 1	11 700	1976
1977	---	0.008 ON JUL 18	0.08 ON MAR 1	10.7	1977
1978	---	0.5078 ON AP. 18	0.08 ON MAR 1	508	1978
1979	8.18 AT 03 00 CST ON APR 30 e	7.99 ON APR 30	0.08 ON MAR 1	12 400	1979
1980	0.116 AT 11 27 CST ON AUG 23	0.085 ON APR 17	0.08 ON MAR 1	144	1980
1981	---	0.104 ON JUN 28	0.08 ON MAR 1	175	1981
1982	---	1.36 B ON APR 15	0.08 ON MAR 1	1 900	1982
				4 400	MEAN

B - ICE CONDITIONS e - EXTREME RECORDED FOR THE PERIOD OF RECORD

JOUBERT CREEK AT ST PIERRE-JOLYS - STATION NO 05OE007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.478	14.6	9.14	2.89	3.85	0.535	3.02	0.261	---	---	4.33	1966
1967	---	---	0.316	16.2	7.11	0.407	0.077	0.034	0.006	0.042	---	---	2.99	1967
1968	---	---	0.140	0.491	0.570	0.506	0.932	0.865	1.07	0.254	---	---	0.577	1968
1969	---	---	0.092	7.76	1.94	0.333	0.176	0.064	0.048	0.057	---	---	1.25	1969
1970	---	---	0.028	5.75	12.9	5.25	0.239	0.042	0.055	0.113	---	---	3.16	1970
1971	---	---	0	3.02	0.815	0.056	0.030	0.016	0.003	0.056	---	---	0.494	1971
1972	---	---	0.278	0.670	0.334	0.064	0.010	0.019	0.007	0.061	---	---	0.180	1972
1973	---	---	0.297	0.124	0.096	0.044	0.015	0.002	0.020	0.152	---	---	0.095	1973
1974	---	---	0	11.1	13.1	3.94	0.193	0.038	0.016	0.044	---	---	3.54	1974
1975	---	---	0.083	0.256	0.277	0.417	1.02	0.017	0.007	0.016	---	---	0.262	1975
1976	---	---	0.005	0.547	0.088	0.198	0.010	0	0	0	---	---	0.104	1976
1977	---	---	0.037	0.131	0.033	0.026	0.005	0.003	0.007	0.025	---	---	0.033	1977
1978	---	---	0.131	2.46	0.674	0.061	0.026	0.001	0	0	---	---	0.415	1978
1979	---	---	0.009	3.16	3.06	1.31	0.163	0.024	0.015	0.038	---	---	0.969	1979
1980	---	---	0.050	1.08	0.073	0.002	0	0.001	0.002	0.031	---	---	0.150	1980
1981	---	---	0.147	0.186	0.126	0.046	0.027	0.002	0.001	0.100	---	---	0.080	1981
1982	---	---	0.205	3.20	0.925	1.46	1.67	0.371	0.020	0.741	---	---	1.07	1982
1983	---	---	1.55	5.78	0.703	0.348	0.362	0.009	0.020	0.018	---	---	1.09	1983
1984	---	---	0.272	0.501	0.135	0.971	0.394	0.023	0.004	0.026	---	---	0.288	1984
1985	---	---	0.435	0.617	0.204	0.094	0.056	0.236	0.089	0.204	---	---	0.227	1985
1986	---	---	1.04	5.04	9.35	0.428	0.181	0.086	0.022	0.164	---	---	2.04	1986
MEAN	---	---	0.266	3.98	2.94	0.903	0.450	0.104	0.210	0.115	---	---	1.11	MEAN

LOCATION - LAT 49 26 26 N DRAINAGE AREA 340 km²
LONG 96 59 23 W NATURAL FLOW

REMARKS - PUBLISHED AS "JOUBERT CREEK AT ST PIERRE" PRIOR TO 1979

JOUBERT CREEK AT ST PIERRE-JOLYS - STATION NO 05OE007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1966	---	28.3 ON APR 7	0.8 ON MAR 1 *	91 600	1966
1967	---	27.2 ON APR 22	0.8 ON MAR 1	83 300	1967
1968	---	4.16 ON MAY 15	0.8 ON MAR 1	12 200	1968
1969	---	15.9 ON APR 19	0.028 ON AUG 18	27 300	1969
1970	---	19.6 ON APR 28	0.028B ON MAR 1	66 900	1970
1971	---	6.82 B ON APR 12	0.8 ON MAR 1	10 400	1971
1972	---	1.89 B ON APR 16	0.8 ON MAR 1	3 800	1972
1973	---	1.54 B ON MAR 13	0.8 ON MAR 1	2 010	1973
1974	---	34.5 ON APR 23 *	0.8 ON MAR 1	75 000	1974
1975	---	8.38 ON JUL 1	0.002 ON SEP 17	5 550	1975
1976	---	3.96 B ON APR 5	0.8 ON MAR 1	2 210	1976
1977	---	0.430B ON MAR 30	0 ON JUL 1	701	1977
1978	---	5.38 B ON APR 10	0 ON AUG 9	8 780	1978
1979	16.4 AT 17 49 CST ON APR 20	15.4 ON APR 20	0 ON AUG 15	20 500	1979
1980	4.02 AT 17 02 CST ON APR 5	3.36 B ON APR 5	0 ON JUN 13	3 170	1980
1981	0.884 AT 04 03 CST ON MAY 29	0.664 ON MAY 29	0 ON JUN 12	1 680	1981
1982	---	5.60 B ON APR 15	0 ON OCT 2	22 700	1982
1983	14.1 B AT 06 10 CST ON APR 8	12.8 B ON APR 8	0 ON JUL 24	23 000	1983
1984	2.64 AT 08 02 CST ON JUN 8	2.38 ON JUN 9	0 E ON AUG 26	6 110	1984
1985	2.53 B AT 09 28 CST ON MAR 26	2.40 B ON MAR 26	0 ON JUL 26	4 820	1985
1986	21.3 AT 23 54 CST ON MAY 6 *	19.3 ON MAY 6	0.0018 ON MAR 1	43 200	1986
			MEAN	23 600	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KENTON CREEK AT KENTON - STATION NO. 05MG006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

EAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
962	---	---	0	0 269	0	0	0	0 010	0	0	---	---	0 034	1962
963	---	---	0 169	0 027	0 020	0 232	0	0 008	0	0	---	---	0 057	1963
964	---	---	0	0 249	0 011	0	0	0	0	0	---	---	0 032	1964
965	---	---	0	0 780	0 001	0 001	0 384	0	0 005	0	---	---	0 139	1965
966	---	---	0 137	0 098	0 037	0	0	0	0	0	---	---	0 034	1966
967	---	---	0	0 367	0 008	0	0	0	0	0	---	---	0 046	1967
968	---	---	0 132	0 005	0	0	0	0	0	0	---	---	0 017	1968
969	---	---	0	1 26	0 009	0	0 003	0 001	0	0	---	---	0 155	1969
970	---	---	0	0 591	0 023	0	0	0	0	0	---	---	0 075	1970
971	---	---	0 009	0 061	0	0 124	0 002	0	0	0	---	---	0 024	1971
972	---	---	0 250	0 281	0 002	0	0	0	0	0	---	---	0 066	1972
973	---	---	0 014	0	0	0	0	0	0	0	---	---	0 002	1973
974	---	---	0	0 862	0 049	0	0	0	0	0	---	---	0 112	1974
975	---	---	0	0 808	0 059	0 012	0	0	0	0	---	---	0 108	1975
976	---	---	0	1 08	0 003	0 010	0 001	0	0	0	---	---	0 134	1976
977	---	---	0 004	0 002	0 001	0	0	0	0	0	---	---	0 001	1977
978	---	---	0 047	0 122	0 003	0	0 001	0	0	0	---	---	0 021	1978
979	---	---	0	0 595	0 026	0 001	0	0	0	0	---	---	0 076	1979
980	---	---	0	0 027	0	0	0	0	0	0	---	---	0 003	1980
981	---	---	0 008	0	0	0	0	0	0	0	---	---	0 001	1981
982	---	---	0 008	0 155	0	0	0	0	0	0	---	---	0 020	1982
983	---	---	0	0 437	0 002	0	0	0	0	0	---	---	0 054	1983
984	---	---	0 003	0	0	0	0	0	0	0	---	---	0	1984
985	---	---	0 135	0 040	0	0	0	0	0	0	---	---	0 022	1985
986	---	---	0 333	0 097	0 134	0 018	0 024	0	0	0	---	---	0 076	1986
EAN	---	---	0 050	0 328	0 016	0 016	0 015	0 001	0	0	---	---	0 052	MEAN

LOCATION : LAT 49 59 24 N DRAINAGE AREA 45 8 km²
LONG 100 36 39 W NATURAL FLOW

KENTON CREEK AT KENTON - STATION NO. 05MG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

AR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
62	---	4 11 ON APR 16	0 ON MAR 1 *	724	1962
63	---	4 30 ON JUN 9	0 8 ON MAR 1	1 200	1963
64	---	2 97 ON APR 4	0 8 ON MAR 1	576	1964
65	---	8 44 ON JUL 20	0 8 ON MAR 1	2 930	1965
66	---	1 42 ON MAR 31	0 8 ON MAR 1	709	1966
67	---	1 21 8 ON APR 9	0 8 ON MAR 1	973	1967
68	---	0 8648 ON MAR 28	0 8 ON MAR 1	367	1968
69	---	8 50 E ON APR 12 *	0 8 ON MAR 1	3 280	1969
70	---	1 74 ON APR 17	0 8 ON MAR 1	1 590	1970
71	---	1 68 ON JUN 15	0 8 ON MAR 1	509	1971
72	---	1 50 ON APR 9	0 8 ON MAR 1	1 400	1972
73	---	0 054 ON MAR 13	0 8 ON MAR 1	38 1	1973
74	---	6 34 8 ON APR 16	0 8 ON MAR 1	2 360	1974
75	---	4 82 ON APR 28	0 8 ON MAR 1	2 280	1975
76	---	6 91 ON APR 9	0 8 ON MAR 1	2 840	1976
77	---	0 016 ON MAR 28	0 8 ON MAR 1	18 6	1977
78	---	0 691 ON MAR 31	0 8 ON MAR 1	451	1978
79	---	3 97 ON APR 19	0 8 ON MAR 1	1 610	1979
80	---	0 303 ON APR 6	0 8 ON MAR 1	70 0	1980
81	---	0 0388 ON MAR 14	0 ON MAR 29	22 4	1981
82	---	1 13 8 ON APR 12	0 8 ON MAR 1	425	1982
83	3 638 AT 19 45 CST ON APR 9 *	2 47 8 ON APR 10	0 8 ON MAR 1	1 140	1983
84	---	0 0398 ON MAR 26	0 8 ON MAR 1	9 33	1984
85	1 87 AT 15 41 CST ON MAR 21	0 8568 ON MAR 21	0 8 ON MAR 1	485	1985
86	2 968 AT 21 26 CST ON MAR 23	2 62 8 ON MAR 23	0 8 ON MAR 1	1 620	1986
				1 110	MEAN

8 - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	11.6	5.55	3.48	3.73	---	---	---	1963
1964	---	---	---	---	35.5	13.2	3.14	2.12	11.6	8.83	4.80	3.03	---	1964
1965	---	---	---	---	38.1	19.8	11.9	4.87	8.71	13.5	9.58	7.80	---	1965
1966	3.63	1.94	0.669	0.422	39.4	29.5	12.7	6.86	4.44	4.01	2.60	1.56	9.02	1966
1967	0.678	---	---	---	---	39.3	15.6	5.31	1.18	1.79	1.78	---	---	1967
1968	---	0.435	0.387	0.301	22.7	---	---	---	---	---	7.84	5.94	---	1968
1969	1.53	0.852	0.484	2.37	4.46	13.6	11.8	8.38	42.4	29.5	8.04	5.18	10.7	1969
1970	2.04	0.870	0.600	1.14	32.3	50.7	24.6	13.8	18.5	27.8	40.0	8.88	19.3	1970
1971	3.48	1.17	0.870	24.9	41.1	43.7	45.2	34.3	15.9	15.1	14.5	8.89	20.9	1971
1972	4.24	1.27	0.465	2.15	52.2	27.8	11.8	5.08	13.2	21.1	11.3	5.52	13.1	1972
1973	1.73	1.02	0.768	0.844	30.6	16.3	4.52	0.840	0.741	4.70	6.72	5.39	6.22	1973
1974	1.93	0.859	0.726	3.85	25.7	17.8	11.5	20.3	27.3	14.7	6.52	3.22	11.2	1974
1975	2.33	0.692	0.186	2.73	29.9	21.6	9.32	11.6	21.5	24.0	10.7	3.91	11.6	1975
1976	1.98	0.904	0.893	6.17	41.4	15.9	36.6	21.8	24.9	23.2	10.6	4.16	15.8	1976
1977	2.34	1.56	1.01	21.2	31.1	15.1	6.50	2.13	10.6	19.4	13.1	5.23	10.8	1977
1978	1.30	0.919	0.746	0.865	34.4	25.3	27.3	27.6	31.6	41.9	16.6	5.76	14.0	1978
1979	2.00	0.895	0.539	0.577	18.9	44.4	29.8	11.8	7.72	11.2	7.25	3.95	11.6	1979
1980	1.74	0.973	0.838	9.89	25.5	---	---	---	52.6	31.1	9.30	5.03	---	1980
1981	3.86	2.08	1.83	1.13	50.2	26.3	10.3	9.62	4.75	21.4	11.1	3.50	12.3	1981
1982	1.56	0.758	0.832	0.610	62.6	27.4	8.24	5.21	9.93	14.1	8.83	5.57	12.2	1982
1983	3.66	2.68	2.04	1.70	28.8	112	13.9	8.63	33.5	33.6	15.2	8.49	21.8	1983
1984	3.83	2.12	1.37	16.9	55.7	29.6	6.92	1.79	1.58	4.25	3.72	2.74	10.9	1984
1985	1.77	0.948	0.558	7.08	51.2	52.4	33.9	5.54	7.04	5.71	5.70	2.89	14.2	1985
1986	1.28	0.710	0.330	0.324	84.9	36.6	42.2	44.9	28.1	16.6	8.42	3.13	22.3	1986
MEAN	2.33	1.17	0.787	5.25	38.1	32.8	17.7	11.8	16.4	17.0	10.0	4.88	14.0	MEAN

LOCATION - LAT 55 20 40 N
LONG 94 41 00 W

DRAINAGE AREA 1 950 km²
NATURAL FLOW

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1963	---	---	---	---	1963
1964	---	54.7 ON MAY 8	---	---	1964
1965	---	59.5 ON MAY 10	0 ON APR 23 *	---	1965
1966	---	52.3B ON MAY 27	0 B ON DEC 12	285 000	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	72.5E ON SEP 15	0.345 ON APR 2	338 000	1969
1970	---	78.9 ON MAY 31	0.510 ON APR 3	508 000	1970
1971	---	63.1E ON JUL 10	0.725B ON APR 8	558 000	1971
1972	---	64.0 ON MAY 12	0.085B ON APR 7	414 000	1972
1973	49.8 AT 18:00 CST ON MAY 20	45.7 ON MAY 20	0.803 ON SEP 24	196 000	1973
1974	33.7 AT 16:15 CST ON SEP 3	33.4 ON SEP 2	0.476B ON MAR 31	352 000	1974
1975	39.1 AT 09:50 CST ON MAY 9	38.5 ON MAY 9	0.074B ON APR 8	385 000	1975
1976	63.1 AT 17:30 CST ON JUL 18	52.0 ON JUL 18	0.838B ON APR 10	500 000	1976
1977	60.3 AT 03:05 CST ON APR 25	56.4 ON APR 24	0.926B ON MAR 23	340 000	1977
1978	52.4 AT 01:44 CST ON OCT 14	50.7 ON OCT 12	0.671B ON MAR 20	567 000	1978
1979	59.8 AT 16:05 CST ON JUN 7	59.3 ON JUN 7	0.462B ON APR 5	367 000	1979
1980	---	---	---	---	1980
1981	98.8 AT 07:30 CST ON MAY 19	97.4 ON MAY 19	0.915 ON APR 23	386 000	1981
1982	105 ON MAY 8	104 ON MAY 8	0.573B ON APR 19	385 000	1982
1983	202 AT 12:00 CST ON JUN 3 *	202 ON JUN 3 *	1.47 B ON MAY 14	687 000	1983
1984	88.5 AT 00:01 CST ON MAY 19	87.0 ON MAY 19	1.08 ON SEP 6	344 000	1984
1985	77.9 AT 07:55 CST ON JUN 28	77.9 ON JUN 28	0.458B ON APR 3	448 000	1985
1986	185 AT 00:25 CST ON MAY 18	185 ON MAY 18	0.276B ON MAR 21	704 000	1986
				441 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	427	390	344	---	---	---	---	1971
1972	306	319	280	281	424	487	432	383	320	280	218	256	332	1972
1973	226	206	192	188	---	---	---	---	---	---	---	---	---	1973
MEAN	266	263	236	235	424	487	430	387	332	280	218	256	332	MEAN

LOCATION - LAT 54 16 00 N
LONG 98 17 00 W

NATURAL FLOW

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1971	---	---	---	---	1971
1972	530 AT 05:13 CST ON JUN 13 *	515 ON MAY 22 *	178E ON OCT 18 *	10 500 000	1972
1973	---	---	---	---	1973
				10 500 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KRONSGART DRAIN NEAR SEWELL - STATION NO 05DC024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.029	0.003	0	0.015	0.001	0	0.002	0.001	---	---	0.012	1973
1974	---	---	0	3.25	1.02	0.006	---	---	---	---	---	---	1.06	1974
1975	---	---	0	0.158	0.038	0.056	---	---	---	---	---	---	0.062	1975
1976	---	---	0	0.713	0	0	---	---	---	---	---	---	0.175	1976
1977	---	---	0	0.037	0.002	0.011	---	---	---	---	---	---	0.012	1977
1978	---	---	0	0.390	0.002	0	0	0	0.001	---	---	---	0.098	1978
1979	---	---	0	3.87	0.408	0.005	---	---	---	---	---	---	1.06	1979
1980	---	---	0	0.233	0.005	0.002	---	---	---	---	---	---	0.059	1980
1981	---	---	0.073	0.009	0.033	0.001	---	---	---	---	---	---	0.029	1981
1982	---	---	0.018	0.433	0	0.588	---	---	---	---	---	---	0.256	1982
1983	---	---	0.001	0.498	0	0	---	---	---	---	---	---	0.123	1983
1984	---	---	0.013	0.037	0.018	0.037	---	---	---	---	---	---	0.026	1984
1985	---	---	0.598	0.058	0	0	---	---	---	---	---	---	0.187	1985
1986	---	---	0.371	0.376	0.027	0	---	---	---	---	---	---	0.194	1986
MEAN	---	---	0.078	0.720	0.111	0.052	0.001	0	0.002	0.001	---	---	0.238	MEAN

LOCATION - LAT 49 16 50 N
LONG 97 30 20 W
NATURAL FLOW

KRONSGART DRAIN NEAR SEWELL - STATION NO 05DC024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	0.227 ON JUN 20	08 ON MAR 1 *	123	1973
1974	---	13.3 ON APR 19	08 ON MAR 1	11 200	1974
1975	---	1.88 ON JUN 30	08 ON MAR 1	655	1975
1976	---	8.38 B ON APR 8	08 ON MAR 1	1 850	1976
1977	---	0.3858 ON APR 9	08 ON MAR 1	129	1977
1978	---	1.95 B ON APR 11	08 ON MAR 1	1 020	1978
1979	---	14.1 B ON APR 21 *	08 ON MAR 1	11 100	1979
1980	2.59 B AT 12:51 CST ON APR 6	2.16 B ON APR 6	08 ON MAR 1	821	1980
1981	0.904 AT 10:09 CST ON MAY 25	0.406 ON MAY 25	08 ON MAR 1	311	1981
1982	6.50 AT 08:39 CST ON JUN 7 *	5.95 ON JUN 7	08 ON MAR 1	2 690	1982
1983	3.92 B AT 13:11 CST ON APR 6	3.30 B ON APR 6	08 ON MAR 1	1 290	1983
1984	0.706 AT 02:15 CST ON JUN 23	0.541 ON JUN 23	08 ON MAR 1	271	1984
1985	5.81 B AT 08:54 CST ON MAR 22	5.13 B ON MAR 22	08 ON MAR 1	1 750	1985
1986	6.33 AT 12:46 CST ON MAR 31	5.88 B ON MAR 31	08 ON MAR 1	2 050	1986
				2 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LA SALLE RIVER AT LA SALLE - STATION NO 05OG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	0.574	0.231	1.15	0.155	0.047	0.007	---	---	---	1935
1936	---	---	---	---	2.26	0.463	0.089	0.004	---	---	---	---	---	1936
MEAN	---	---	---	---	1.42	0.347	0.610	0.080	0.047	0.007	---	---	---	MEAN

LOCATION - LAT 49 41 48 N
LONG 97 15 42 W
DRAINAGE AREA, 2 390 km^2
NATURAL FLOW

LA SALLE RIVER NEAR ELIE - STATION NO 05OG008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	4.23	3.79	0.081	0.015	0	0	0	---	---	1.01	1979
1980	---	---	0	0.299	0.024	0.005	0.008	0.002	0.001	0.121	---	---	0.057	1980
1981	---	---	0.228	0.040	0.007	0.002	0.003	0.002	0.002	0.002	---	---	0.036	1981
1982	---	---	0.001	0.791	0.084	0.002	0.002	0.001	0	---	---	---	0.106	1982
1983	---	---	0.008	2.75	0.075	0.042	0.007	0.001	0.001	0	---	---	0.354	1983
1984	---	---	0.011	0.088	0.037	2.49	0.118	0.003	0.001	0.020	---	---	0.337	1984
1985	---	---	0.815	1.85	0.142	---	---	0.850	0.083	0.184	---	---	---	1985
1986	---	---	0.850	2.71	3.19	0.027	0.744	0.225	0.010	0.157	---	---	0.990	1986
MEAN	---	---	0.239	1.59	0.916	0.376	0.128	0.111	0.012	0.051	---	---	0.413	MEAN

LOCATION - LAT 49 53 13 N
LONG 97 45 54 W
DRAINAGE AREA, 198 km^2
NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	17.0 ON MAY 2 *	0B ON MAR 1 *	21 400	1979
1980	---	1.01 ON APR 17	0B ON MAR 1	1 210	1980
1981	0.439 AT 08:04 CST ON MAR 31	0.4278 ON MAR 12	0 ON MAY 28	761	1981
1982	2.90 AT 22:17 CST ON APR 14	2.67 ON APR 14	0B ON MAR 1	2 240	1982
1983	10.5 AT 04:28 CST ON APR 9	8.95 ON APR 9	0 ON SEP 19	7 490	1983
1984	11.0 AT 11:47 CST ON JUN 22 *	10.4 ON JUN 22	0B ON MAR 1	0 130	1984
1985	---	---	---	---	1985
1986	---	15.2 ON MAY 7	0B ON MAR 1	20 900	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 730	MEAN

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	0	0	0	---	1958
1959	0	0	0.006	14.6	2.23	0.227	0.003	0.188	0.036	12.8	3.02	0.081	2.77	1959
1960	0.028	0.037	0.049	25.7	1.90	0.332	0.114	0.021	0.017	0	0	0	2.31	1960
1961	0	0	1.14	7.98	1.14	0	0	0	0	0	0	0	0.849	1961
1962	0	0	0	13.0	4.26	4.31	0.531	17.2	2.64	0.040	0.014	0	3.51	1962
1963	0	0	2.06	7.21	1.48	8.02	0.152	0.001	0	0	0	0	1.85	1963
1964	0	0	0	3.00	0.132	0.806	0.029	0.001	0.052	0.001	0	0	0.314	1964
1965	0	0	0	35.6	2.34	0.568	0	0	0.057	0	0	0	3.17	1965
1966	0	0	0.010	30.2	9.64	0	2.80	0.290	1.87	---	---	---	---	1966
MEAN	0.004	0.005	0.408	17.2	2.89	1.88	0.454	2.21	0.584	1.51	0.379	0.008	2.08	MEAN

LOCATION - LAT 49 39 00 N DRAINAGE AREA 2 110 km^2
LONG 97 23 00 W NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	0 ON OCT 1 *	---	1958
1959	---	49.88 ON APR 8	0B ON JAN 1	87 300	1959
1960	---	75.9 ON APR 13	0 ON JUL 20	73 200	1960
1961	---	23.98 ON APR 11	0B ON JAN 1	26 800	1961
1962	---	71.18 ON APR 26	0 ON JAN 1	111 000	1962
1963	---	54.7 ON JUN 5	0B ON JAN 1	52 000	1963
1964	---	15.08 ON APR 16	0 ON JAN 1	9 930	1964
1965	---	115 8 ON APR 16 *	0B ON JAN 1	100 000	1965
1966	---	88.98 ON APR 14	0B ON JAN 1	---	1966
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		85 700	MEAN

LA SALLE RIVER NEAR SANFORD - STATION NO 05DG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	2.84	1.39	0.165	0.343	0.389	0.266	---	---	---	---	1922
1923	---	---	---	---	20.4	1.35	1.26	0.261	---	---	---	---	---	1923
1924	---	---	---	---	3.22	0.088	0.047	0.017	0	---	---	---	---	1924
1925	---	---	3.76	19.7	0.578	2.55	1.19	0.118	0.070	---	---	---	---	1925
1927	---	---	---	---	18.1	3.32	1.85	0.381	0.211	---	---	---	---	1927
1928	---	---	---	3.41	0.244	2.85	3.79	0.285	0.069	---	---	---	---	1928
1929	---	---	---	---	0.099	0.179	0.283	0.222	0.260	---	---	---	---	1929
1930	---	---	---	7.93	1.39	0.070	---	---	---	---	---	---	---	1930
1934	---	---	---	13.0	0.804	---	---	---	---	---	---	---	---	1934
1956	---	---	---	25.4	24.5	0.364	0.434	0.166	1.17	0.720	0.624	0.028	---	1956
1957	0.054	0.034	2.50	6.75	0.427	0.370	0.241	0.103	0.291	0.085	0.019	0	0.803	1957
1958	0	0	0.670	0.828	0.122	0.085	1.50	0.038	0.003	---	---	---	---	1958
1966	---	---	---	---	---	---	---	---	---	0	0	0	---	1966
1967	0	0	0	39.9	3.83	0	0	0	0	0.003	0	0	3.61	1967
1968	0	0	0.884	1.74	0.180	0.058	0.788	10.5	2.91	0.178	0.055	0.001	1.45	1968
1969	0	0	0	28.4	5.65	3.30	10.7	1.87	0.157	0.166	0	0	4.18	1969
1970	0	0	0	35.5	25.9	0.473	0.033	0	0	0	0	0	5.15	1970
1971	0	0	0	17.2	0.998	0.088	0.041	0	0	0	0	0	1.51	1971
1972	0	0	0.044	20.3	0.650	0.016	0.008	0	0	0	0	0	1.72	1972
1973	0	0	3.36	0.638	0.195	1.17	0.126	0.187	0	0	0	0	0.477	1973
1974	0	0	0	49.0	41.4	1.41	0	0	0	0	0	0	7.66	1974
1975	0	0	0	13.5	3.85	0.191	0.183	0	0	0	0	0	1.48	1975
1976	0	0	0.002	27.9	0.215	1.07	0.037	0.027	0.010	0.026	0.248	0.158	2.44	1976
1977	0.025	0.015	0.018	1.03	0.166	0.051	1.79	0.011	3.33	0.321	0.010	0.008	0.583	1977
1978	0.005	0.006	0.047	20.9	7.07	0.346	0.115	0.024	0.224	0.053	0.013	0.008	2.38	1978
1979	0.008	0.007	0.011	37.6	48.6	1.84	0.445	0.106	0.004	0	0.004	0	7.41	1979
1980	0	0	0.002	2.64	0	0	0	0	0	0	0.220	0	0.235	1980
1981	0	0.012	.16	0.520	0.156	0.024	0.005	0	0	0	0.001	0.001	0.158	1981
1982	0	0	0.350	8.32	0.045	0.001	0.011	0.002	0.004	0.002	0	0	< .554	1982
1983	0	0	0.484	20.5	0.008	1.55	0.048	0	0	0	0	0	1.86	1983
1984	0	0	0.089	1.26	0.276	7.05	0.156	0.001	0.001	0.095	0.038	0.143	0.747	1984
1985	0.085	0.039	7.55	11.1	0.330	0.022	0.086	8.93	0.705	0.733	0.989	0.737	2.82	1985
1986	0.170	0.051	8.63	25.9	20.9	0.283	4.90	0.260	0.158	0.219	0.144	0.090	5.17	1986
MEAN	0.015	0.007	1.28	15.8	7.24	0.971	1.01	0.786	0.339	0.114	0.102	0.051	2.49	MEAN

LOCATION - LAT 49 40 45 N DRAINAGE AREA 1 900 km²
LONG 97 25 46 W NATURAL FLOW

REMARKS - MISC. MEASUREMENTS WERE ALSO OBTAINED IN 1915, 1916, 1920, 1932, AND 1933

LA SALLE RIVER NEAR SANFORD - STATION NO 05DG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

EAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
922	---	---	---	---	
923	---	6.14 ON APR 10	---	---	1922
924	---	84.4 ON APR 28	---	---	1923
	---	---	0 ON JUL 15 *	---	1924
925	---	---	---	---	
927	---	---	---	---	1925
928	---	---	---	---	
929	---	---	---	---	1927
	---	---	---	---	1928
930	---	---	---	---	1929
	---	26.9 ON APR 12	0 ON MAY 1	---	1930
934	---	50.4 ON APR 12	0 ON MAY 27	---	1934
956	---	113 ON MAY 2	0 ON JUN 24	---	
957	---	15.8 B ON APR 1	0 B ON NOV 28	---	1956
958	---	5.61 ON JUL 6	0 B ON JAN 1	28 500	1957
966	---	---	---	---	1958
967	---	---	0 ON OCT 1	---	
968	---	90.6 ON APR 22	0 B ON JAN 1	---	1966
969	---	50.9 ON AUG 27	0 B ON JAN 1	113 000	1967
	---	108 ON APR 13	0 B ON JAN 1	46 000	1968
970	---	---	0 B ON JAN 1	132 000	1969
971	---	125 B ON APR 28 *	0 B ON JAN 1	183 000	
972	---	58.9 B ON APR 12	0 B ON JAN 1	47 500	1970
973	---	88.6 ON APR 18	0 B ON JAN 1	54 500	1971
974	---	10.9 B ON MAR 24	0 B ON JAN 1	15 000	1972
	---	123 ON APR 24	0 B ON JAN 1	242 000	1973
975	---	53.5 ON APR 30	0 B ON JAN 1	46 600	1974
976	---	89.5 ON APR 10	0 B ON JAN 1	77 100	1975
977	---	16.1 ON SEP 11	0.002 ON AUG 19	17 800	1976
978	---	58.6 ON APR 17	0.0068 ON JAN 4	75 200	1977
979	119 B AT 22:05 CST ON APR 25 *	119 B ON APR 25	0 ON AUG 26	233 000	1978
980	9.63 AT 13:00 CST ON APR 19	---	---	---	1979
981	---	9.21 ON APR 19	0 B ON JAN 1	7 430	
982	30.9 B AT 09:05 CST ON APR 16	4.628 ON MAR 28	0 B ON JAN 1	4 870	1980
983	69.7 B AT 05:47 CST ON APR 8	30.2 B ON APR 16	0 B ON JAN 1	17 500	1981
984	25.3 AT 17:09 CST ON JUN 18	69.1 B ON APR 8	0 B ON JAN 1	58 700	1982
		25.0 ON JUN 19	0 B ON JAN 1	23 600	1983
985	48.9 B AT 08:39 CST ON APR 5	47.3 B ON APR 4	0.002 ON JUN 16	82 500	1984
986	108 AT 04:17 CST ON APR 2	105 ON APR 2	0.0208 ON MAR 23	183 000	1985
				78 500	1986
					MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO 05EB005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	27.7	34.8	28.3	35.0	37.1	24.1	30.6	30.4	37.7	36.1	34.0	28.8	32.0	1978
1979	30.6	---	---	---	33.2	36.1	27.2	25.1	25.0	23.7	24.2	19.4	---	1979
1980	17.6	18.7	19.7	24.3	28.1	13.9	11.8	19.5	---	---	28.9	25.4	---	1980
1981	27.3	31.0	27.4	25.5	29.4	19.4	14.6	12.6	12.6	15.8	17.1	18.6	20.9	1981
1982	17.7	14.3	16.9	19.6	35.8	40.3	34.7	33.3	24.6	16.7	21.5	21.4	24.8	1982
MEAN	24.2	24.7	23.1	26.1	32.7	26.8	23.8	24.2	25.0	23.1	25.2	22.7	25.9	MEAN

LOCATION - LAT 55 13 43 N DRAINAGE AREA 3 840 km²
LONG 101 00 12 W REGULATED SINCE 1951

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO 05EB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	42.5 AT 08 10 CST ON MAY 16	41.6 ON MAY 15	1.42E ON JUN 1 *	1 010 000	1978
1979	---	---	---	---	1979
1980	---	---	---	---	1980
1981	37.3 AT 08 00 CST ON MAY 24	37.2 ON MAY 24	11.0 ON JUN 26	---	1981
1982	74.9 AT 16 40 CST ON AUG 20 *	71.1 ON AUG 21 *	10.4 ON AUG 5 10.1 ON FEB 22	680 000 783 000	1982
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		818 000	MEAN

LIMESTONE RIVER NEAR BIRD - STATION NO 05UG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	25.9	15.7	19.2	19.3	8.79	5.63	---	1963
1964	3.66	2.56	1.69	1.04	9.08	16.2	11.9	9.24	20.4	13.9	---	---	---	1964
1965	---	---	---	---	---	39.4	23.6	14.5	22.3	23.1	---	---	---	1965
1966	---	---	---	---	---	60.0	20.2	11.1	8.89	7.09	---	---	---	1966
1967	---	---	---	---	---	66.1	31.3	13.8	5.99	8.23	---	---	---	1967
1970	---	---	---	---	---	---	---	---	---	---	---	15.7	---	1970
1971	8.75	3.77	3.48	32.0	79.9	89.2	108	59.3	26.9	21.3	16.5	12.0	39.5	1971
1972	7.80	4.74	2.83	5.03	88.7	38.2	25.6	12.2	40.8	27.0	12.0	6.26	22.6	1972
1973	5.42	6.27	6.23	1.56	62.1	18.4	8.85	1.72	3.09	10.4	5.54	3.65	11.1	1973
1974	2.25	1.34	1.38	10.1	---	27.2	10.8	25.1	30.5	16.9	11.4	6.60	---	1974
1975	---	---	---	---	---	---	---	---	---	31.7	9.54	5.86	---	1975
1976	4.41	3.52	2.72	13.4	106	34.2	30.0	19.1	18.3	40.3	13.4	6.70	24.5	1976
1977	4.95	3.89	2.56	89.8	56.7	26.5	17.8	6.01	19.3	15.0	8.17	4.85	19.7	1977
1978	2.21	1.34	0.950	0.887	78.3	26.4	48.4	61.0	63.7	49.4	15.9	6.61	29.9	1978
1979	2.90	1.44	0.814	1.07	36.0	62.1	56.4	26.2	23.4	30.9	10.0	5.55	21.5	1979
1980	3.32	2.25	1.83	33.9	---	---	---	---	---	---	8.28	5.89	---	1980
1981	3.94	3.05	2.86	2.85	83.9	37.9	24.0	22.3	10.9	29.0	9.89	3.55	19.7	1981
1982	2.52	2.09	1.74	1.88	124	67.8	24.8	10.0	15.2	19.6	7.49	5.10	23.7	1982
1983	4.04	3.38	2.83	2.47	56.7	154	23.5	36.8	59.1	33.6	19.3	9.06	34.7	1983
1984	4.75	2.12	0.595	66.6	98.8	42.6	14.3	6.86	8.47	9.62	5.22	3.23	21.9	1984
1985	1.91	1.28	1.03	32.3	91.6	56.2	25.4	7.22	3.89	6.84	7.49	4.58	20.1	1985
1986	2.54	1.52	1.55	1.72	107	41.7	57.0	53.7	26.8	14.7	4.79	3.18	26.6	1986
MEAN	4.07	2.77	2.17	17.3	77.1	50.2	30.9	22.3	22.9	21.4	10.3	6.37	24.3	MEAN

LOCATION - LAT 56 31 10 N DRAINAGE AREA 3 280 km²
LONG 94 12 20 W NATURAL FLOW

LIMESTONE RIVER NEAR BIRD - STATION NO 05UG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	---	---	---	1964
		29.2 ON SEP 12	---	---	
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
		285 B ON MAY 24	---	---	
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	185 AT 15:51 CST ON JUL 8	180 ON JUN 1	1.53 B ON APR 11	1 250 000	1972
1973	---	149 B ON MAY 11	1.92 B ON APR 24	717 000	1973
1974	---	120 B ON MAY 14	0.0988 ON APR 17 *	350 000	1974
		---	1.20 B ON FEB 24	---	
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	162 ON MAY 11	2.12 B ON APR 8	774 000	1977
1978	---	163 ON APR 23	2.04 B ON MAR 31	622 000	1978
1979	124 AT 13:26 CST ON JUL 17	161 E ON MAY 15	0.8788 ON MAR 21	942 000	1979
		121 ON JUL 17	0.6518 ON MAR 29	879 000	
1980	---	---	---	---	1980
1981	2098 AT 08:15 CST ON MAY 21	208 B ON MAY 21	2.77 B ON DEC 31	821 000	1981
1982	---	356 B ON MAY 3	1.54 B ON APR 9	748 000	1982
1983	---	438 ON MAY 31 *	2.27 B ON MAY 17	1 090 000	1983
1984	382 AT 05:50 CST ON APR 23 *	303 ON APR 30	0.2288 ON APR 1	894 000	1984
1985	---	---	---	---	1985
1986	---	243 B ON APR 30	0.9388 ON APR 6	832 000	1986
		273 E ON MAY 15	1.35 B ON FEB 19	840 000	
				755 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO 08FB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

EAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
972	6.36	3.88	2.46	---	---	---	78.7	51.7	119	44.2	22.6	13.4	---	1972
973	7.28	4.72	4.05	5.00	101	---	---	---	---	17.3	11.1	5.51	---	1973
974	3.27	2.08	1.28	2.90	43.7	30.9	20.2	37.2	22.8	14.9	7.86	6.42	18.2	1974
975	4.52	1.85	0.824	2.97	82.3	86.8	35.9	29.6	28.3	34.4	20.2	12.2	26.8	1975
976	7.24	4.48	3.35	3.63	54.8	51.3	24.7	12.0	23.1	49.1	17.7	9.41	21.8	1976
977	5.34	3.92	3.24	27.8	112	44.0	34.4	20.8	46.0	22.6	13.8	7.67	28.6	1977
978	3.83	2.52	2.03	1.91	48.6	83.8	46.2	107	88.7	58.4	25.4	11.0	38.5	1978
979	5.29	3.13	1.95	1.45	47.8	89.4	36.5	28.5	38.3	39.8	14.0	7.55	26.0	1979
980	3.90	2.39	1.86	25.8	70.9	83.5	47.9	83.3	100	37.6	9.71	6.79	40.3	1980
981	5.23	4.23	3.59	3.08	89.3	86.0	24.2	11.7	10.8	28.2	10.8	4.22	21.7	1981
982	1.78	0.590	0.434	1.26	90.8	107	47.3	22.4	35.7	25.3	11.4	7.39	29.5	1982
983	5.55	4.44	3.79	3.28	205	37.6	48.5	168	88.4	29.7	14.6	50.3	1983
984	9.57	6.08	3.53	52.4	136	84.8	18.2	7.58	10.2	10.8	7.08	3.85	29.2	1984
985	1.74	1.55	1.45	2.38	138	56.8	23.4	7.89	5.43	6.34	2.10	0.828	20.9	1985
986	0.548	0.384	0.223	0.098	151	139	130	46.8	26.5	13.5	5.26	2.98	43.5	1986
AN	4.77	3.07	2.28	9.57	84.5	83.7	43.2	37.3	51.6	31.3	14.0	7.58	30.3	MEAN

LOCATION - LAT 57 39 10 N
LONG 95 39 50 W
DRAINAGE AREA 4 250 km^2
NATURAL FLOW

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO 08FB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

AR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
72	203 AT 21:55 CST ON SEP 2	200 ON SEP 3	---	---	1972
73	217 AT 01:30 CST ON MAY 15	198 ON MAY 15	3.34 B ON APR 7	---	1973
74	88.8 AT 17:30 CST ON MAY 14	83.7 ON MAY 13	0.7858 ON APR 12	511 000	1974
75	---	118 B ON MAY 8	0.8808 ON MAR 28	845 000	1975
76	---	132 A ON MAY 19	3.23 B ON MAR 16	890 000	1976
77	---	154 B ON MAY 3	3.11 B ON MAR 25	901 000	1977
78	187 AT 16:57 CST ON AUG 15	188 ON AUG 15	1.87 B ON APR 6	1 210 000	1978
79	---	123 B ON MAY 26	1.35 B ON APR 17	820 000	1979
80	240 AT 21:00 CST ON AUG 24	239 ON AUG 24	1.41 B ON APR 7	1 280 000	1980
81	248 AT 13:00 CST ON MAY 21	242 ON MAY 21	2.83 B ON APR 30	886 000	1981
82	155 AT 15:00 CST ON JUN 1	153 ON JUN 1	0.3548 ON APR 8	929 000	1982
83	406 AT 21:29 CST ON JUN 1 *	395 ON JUN 2	2.85 B ON MAY 20	1 580 000	1983
84	276 AT 19:55 CST ON MAY 18	265 ON MAY 19	1.87 B ON APR 8	924 000	1984
85	215 ON MAY 9	209 ON MAY 8	0.8248 ON DEC 31	858 000	1985
86	---	410 E ON MAY 20 *	0.0868 ON APR 13 *	1 370 000	1986
				954 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO 05PC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	23 7	16 9	15 5	13 1	8 80	---	1967
1968	5 41	4 31	6 06	6 88	89 3	105	83 4	29 3	26 4	40 3	25 6	16 2	35 0	1968
1969	11 4	9 58	8 12	8 43	10 4	101	69 4	42 8	87 7	77 8	41 4	26 2	42 0	1969
1970	20 4	17 1	12 5	10 7	49 0	109	58 6	40 2	41 8	55 8	85 9	38 6	45 0	1970
1971	28 4	23 2	16 6	22 3	108	108	177	103	64 4	58 3	46 4	28 8	65 6	1971
1972	23 4	19 6	15 0	13 2	88 1	83 0	53 2	35 6	64 0	51 2	31 3	21 9	40 1	1972
1973	16 0	12 7	12 6	12 8	68 3	38 9	25 3	15 6	14 3	17 6	13 0	10 0	21 5	1973
1974	8 20	7 35	7 10	11 2	29 4	33 7	28 1	35 6	27 8	24 9	17 5	14 5	20 5	1974
1975	12 4	10 5	9 06	9 85	---	---	47 4	49 4	55 5	56 2	40 4	27 3	---	1975
1976	19 6	15 3	13 7	17 2	100	68 0	79 3	60 4	45 5	50 3	27 4	18 6	43 7	1976
1977	14 7	12 6	11 5	48 0	89 4	65 6	60 7	38 0	41 5	36 3	20 1	19 5	39 0	1977
1978	13 2	10 9	9 26	8 46	59 2	58 2	58 0	102	97 5	104	56 1	31 6	51 0	1978
1979	14 7	13 9	10 8	9 00	73 3	115	74 8	44 6	44 7	56 7	34 7	21 7	43 3	1979
1980	14 1	11 5	11 0	21 7	40 5	56 5	82 3	132	140	93 6	46 0	28 1	56 5	1980
1981	20 7	16 8	13 9	12 6	72 9	61 3	37 6	30 7	19 7	31 2	22 4	11 7	29 4	1981
1982	9 04	7 40	6 24	5 96	97 3	101	54 9	47 5	59 5	57 6	34 7	21 2	42 1	1982
1983	16 0	13 6	12 3	11 6	12 0	---	60 4	52 3	87 2	75 8	44 9	27 6	---	1983
1984	21 0	16 5	12 9	---	---	---	39 6	27 3	23 8	24 3	14 7	9 85	---	1984
1985	8 55	8 28	8 12	15 8	128	91 6	78 2	44 4	30 1	27 8	15 3	8 10	39 0	1985
1986	6 20	5 90	5 85	5 42	126	118	157	123	93 5	65 2	31 1	17 6	63 3	1986
MEAN	15 1	12 5	10 6	13 9	73 1	80 9	88 7	53 9	54 6	51 3	33 6	20 3	42 3	MEAN

LOCATION - LAT 56 54 00 N
LONG 95 48 00 W
DRAINAGE AREA 5 810 km²
NATURAL FLOW

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO 05PC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	188 B ON MAY 18	4 058 ON FEB 14 *	1 110 000	1969
1970	---	183 ON JUN 25	7 228 ON APR 12	1 330 000	1970
1971	255 AT 20 08 CST ON JUL 10 *	173 ON JUN 2	9 838 ON APR 19	1 420 000	1971
1972	---	253 ON JUL 11	11 3 B ON APR 10	2 070 000	1972
1973	123 AT 12 30 CST ON MAY 14	122 ON MAY 14	11 9 B ON APR 24	1 270 000	1973
1974	47 6 AT 19 00 CST ON AUG 1	114 ON MAY 14	8 218 ON DEC 31	679 000	1974
1975	---	47 0 ON AUG 1	5 808 ON APR 17	645 000	1975
1976	143 B AT 21 20 CST ON APR 12	---	---	---	1976
1977	---	140 ON MAY 12	13 4 B ON MAR 29	1 380 000	1977
1978	157 AT 15 02 CST ON AUG 20	143 B ON APR 26	11 2 B ON APR 4	1 230 000	1978
1979	---	155 ON AUG 20	8 308 ON APR 11	1 610 000	1979
1980	---	170 B ON MAY 25	8 508 ON APR 15	1 370 000	1980
1981	---	---	---	---	1981
1982	145 AT 18 00 CST ON JUN 9	244 ON AUG 26	10 5 B ON APR 5	1 780 000	1982
1983	---	131 B ON MAY 22	9 928 ON DEC 31	927 000	1983
1984	---	142 ON JUN 10	5 128 ON APR 20	1 330 000	1984
1985	200 AT 18 25 CST ON MAY 4	---	11 1 B ON MAY 19	---	1985
1986	---	---	9 128 ON DEC 31	---	1986
		198 ON MAY 4	---	---	
		251 B ON MAY 16 *	6 678 ON DEC 31	1 230 000	MEAN
			5 368 ON APR 13	2 000 000	
				1 340 000	

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO 05MF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0 450	0 930	1 63	0 830	1 09	1 52	0 843	0 142	---	1915
1916	0 057	0 057	0 113	3 40	4 25	7 78	12 7	3 83	2 26	2 41	1 13	0 566	3 23	1916
1917	0 419	0 338	0 473	3 06	7 59	3 19	3 62	1 20	0 893	0 580	0 525	---	---	1917
1918	---	---	---	0 430	1 28	1 46	0 814	0 608	0 587	---	---	---	---	1918
1919	---	---	---	---	2 88	1 18	2 14	0 555	0 474	0 715	0 375	0 033	---	1919
1920	---	---	---	---	10 7	3 48	0 711	0 209	0 326	0 404	---	---	---	1920
1921	---	---	---	---	4 72	2 93	0 862	0 618	1 00	1 01	0 817	---	---	1921
1922	---	---	---	1 33	4 47	3 22	3 15	2 00	1 62	0 938	---	---	---	1922
MEAN	0 238	0 198	0 293	2 06	4 54	3 02	3 20	1 23	1 01	1 08	0 738	0 247	3 23	MEAN

LOCATION - LAT 50 31 55 N
LONG 100 17 40 W
DRAINAGE AREA 1 170 km²
NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO OSMF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	...	...	...	...	1915
1916	...	...	...	...	1916
1917	...	22 9 ON JUL 3 *	0 0578 ON JAN 1 *	102 000	1917
1918	...	10 2 ON MAY 8	...	...	1918
1919	...	2 38 ON APR 26	...	...	1919
1920	...	...	...	...	1920
1921	...	15 6 ON MAY 15	...	...	1921
1922	...	...	...	...	1922
		5 86 ON MAY 27			
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		102 000	MEAN

LITTLE SASKATCHEWAN RIVER AT MIDDLETON BRIDGE - STATION NO OSMF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	...	...	...	...	...	0 391	0 742	0 631	0 440	0 462	0 248	...	...	1915
1916	...	...	...	1 99	1 19	4 08	8 91	3 63	1 03	1 10	0 700	...	...	1916
MEAN	...	...	...	1 99	1 19	2 24	4 83	2 13	0 735	0 781	0 474	...	...	MEAN

LOCATION - LAT 50 41 40 N LONG 100 14 45 W DRAINAGE AREA 888 km^2 NATURAL FLOW

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO OSMF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	1 42	1 70	1 70	28 3	14 8	8 21	10 5	5 43	1 54	1 83	1 42	0 586	5 70	1913
1914	0 566	0 566	0 566	26 5	...	...	...	...	...	...	...	...	...	1914
MEAN	0 993	1 13	1 13	27 9	14 8	8 21	10 5	5 43	1 54	1 83	1 42	0 586	5 70	MEAN

LOCATION - LAT 50 11 25 N LONG 99 58 00 W DRAINAGE AREA REGULATED 3 170 km^2

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO OSMF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	...	...	...	...	1913
1914	...	57 8 ON APR 12 *	0 283 ON SEP 12 *	211 000	1914
		...	...	...	
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		211 000	MEAN

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO 05MF001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	24.1	14.7	5.46	1.42	1.13	1.05	0.939	0.802	0.380	---	1914
1915	0.001	0.001	0.057	2.69	1.59	2.21	1.97	0.531	0.770	2.33	1.14	0.227	1.13	1915
1916	0.425	0.340	0.227	9.91	8.59	11.5	14.9	3.98	1.94	2.15	1.70	0.850	4.72	1916
1917	0.412	0.474	0.839	5.71	12.6	4.34	3.50	1.34	0.811	0.595	0.942	0.242	2.67	1917
1918	0.073	0.101	1.60	6.26	2.70	3.14	1.04	0.807	1.29	0.880	0.595	0.298	1.56	1918
1919	0.286	0.280	0.325	8.78	6.42	2.34	3.16	1.57	1.90	2.05	0.782	0.290	2.35	1919
1920	0.038	0.050	0.202	5.76	16.4	6.95	2.11	0.575	1.55	1.55	1.01	0.785	3.09	1920
1921	0.352	0.213	0.379	5.89	12.0	6.95	2.00	1.25	3.29	2.84	1.80	1.06	3.17	1921
1922	0.387	0.124	0.311	6.79	11.7	6.57	5.12	4.49	2.14	1.51	1.93	1.38	3.56	1922
1923	0.879	0.354	0.409	13.1	43.0	20.9	15.0	6.90	4.40	2.84	1.61	1.06	9.26	1923
1924	0.358	0.182	0.449	3.92	22.8	9.89	8.44	3.82	1.70	3.87	2.80	1.30	4.99	1924
1925	0.871	0.759	0.991	23.1	12.8	16.2	15.4	4.25	2.12	3.54	2.54	1.07	5.97	1925
1926	0.718	0.480	1.27	7.77	5.78	4.08	1.93	0.980	5.32	6.41	4.11	1.98	3.40	1926
1927	1.40	0.689	0.684	23.0	49.3	27.6	17.5	10.4	6.57	4.09	---	---	---	1927
1928	---	---	---	11.3	10.1	18.0	13.0	5.97	2.85	1.92	1.05	0.680	---	1928
1929	0.595	0.425	0.850	2.88	5.21	4.55	1.19	0.378	0.327	0.499	---	---	---	1929
1930	---	---	---	---	5.34	3.08	0.967	0.180	0.072	---	---	---	---	1930
1959	---	---	0	2.46	7.04	3.15	1.30	0.408	0.475	2.95	---	---	---	1959
1960	---	---	0.057	12.0	19.1	12.3	2.17	0.520	0.380	0.332	---	---	---	1960
1961	---	---	0.371	2.18	2.63	0.598	0.199	0.066	0.052	0.102	---	---	---	1961
1962	---	---	0	1.80	0.803	1.99	0.489	0.583	0.895	0.320	---	---	---	1962
1963	---	---	1.29	11.5	5.85	6.87	3.67	1.17	1.01	1.06	---	---	---	1963
1964	---	---	0.192	5.99	11.1	1.40	1.14	0.500	0.219	0.369	---	---	---	1964
1965	---	---	0.008	4.01	15.5	9.13	2.71	1.39	6.67	4.53	---	---	---	1965
1966	---	---	0.590	9.18	15.8	6.71	2.20	3.48	1.14	0.666	---	---	---	1966
1967	---	---	0.496	12.1	20.1	6.54	1.64	0.728	0.162	0.349	---	---	---	1967
1968	---	---	1.65	6.41	3.89	2.40	2.16	5.79	3.90	1.35	---	---	---	1968
1969	---	---	0.474	16.5	8.38	4.06	16.2	3.53	2.23	1.72	---	---	---	1969
1970	---	---	0.671	6.07	45.0	15.5	7.10	4.31	1.88	2.40	---	---	---	1970
1971	---	---	0.813	13.2	9.11	20.5	10.2	5.54	2.13	5.19	---	---	---	1971
1972	1.84	1.52	1.38	13.7	22.1	5.20	1.50	1.56	1.08	0.630	0.644	0.256	4.26	1972
1973	0.128	0.101	0.885	2.21	1.80	3.17	1.18	1.14	2.55	4.44	1.69	1.34	1.73	1973
1974	0.505	0.846	1.40	14.4	33.5	15.0	2.29	0.887	0.589	0.616	0.578	0.530	5.94	1974
1975	0.383	0.338	0.395	5.12	17.0	8.72	4.09	4.08	26.3	19.3	7.58	3.70	8.11	1975
1976	2.90	2.63	2.25	32.4	16.5	12.7	7.78	1.49	0.520	0.413	0.402	0.243	6.86	1976
1977	0.343	0.670	1.21	4.48	3.48	1.28	3.71	1.53	2.44	3.69	1.55	1.23	2.14	1977
1978	0.830	0.779	0.829	7.91	8.49	2.80	1.30	0.441	0.807	1.14	1.18	0.658	2.37	1978
1979	0.449	0.317	0.473	13.9	33.5	17.4	3.38	0.796	0.412	0.314	0.459	0.432	6.01	1979
1980	0.304	0.223	0.348	5.09	2.05	0.367	0.832	2.45	3.24	1.90	1.87	1.46	1.66	1980
1981	0.645	0.283	1.08	5.13	4.18	3.75	1.57	0.429	0.221	0.872	2.00	0.848	1.73	1981
1982	0.241	0.484	0.322	11.0	7.64	2.31	1.38	1.04	0.205	1.84	1.34	0.212	2.33	1982
1983	0.320	0.240	0.715	11.8	15.4	6.41	3.84	1.18	0.084	0.292	0.252	0.147	3.40	1983
1984	0.105	0.121	0.619	3.58	5.14	3.46	1.67	0.156	0.076	1.03	1.19	0.670	1.49	1984
1985	0.383	0.310	0.310	8.26	5.26	2.49	1.43	3.53	3.31	4.67	2.17	0.771	2.83	1985
1986	0.675	0.639	1.67	18.1	28.6	6.12	2.87	2.54	1.02	2.73	1.57	1.34	5.78	1986
MEAN	0.571	0.481	0.693	8.62	13.6	7.49	4.41	2.21	2.31	2.35	1.63	0.870	3.83	MEAN

LOCATION - LAT 50 21 28 N DRAINAGE AREA 2 630 km²
LONG 99 54 00 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO 05MF001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	7 08 ON APR 12	0 8 ON JAN 1 *	35 600	1915
1916	---	25 2 ON JUL 1	0 2278 ON MAR 1	149 000	1916
1917	---	21 1 ON MAY 2	0 0858 ON DEC 26	84 100	1917
1918	---	8 47 ON APR 4	0 0578 ON JAN 6	49 300	1918
1919	---	11 8 ON APR 11	0 1138 ON DEC 31	74 300	1919
1920	---	---	---	---	1920
1921	---	20 4 ON MAY 18	0 8 ON JAN 21	97 800	1921
1922	---	16 0 ON MAY 28	0 1708 ON JAN 24	100 000	1922
1923	---	14 0 ON MAY 20	0 0858 ON FEB 12	112 000	1923
1924	---	83 5 ON MAY 5	0 2558 ON FEB 17	292 000	1924
1925	---	36 2 ON MAY 2	0 1138 ON MAR 6	158 000	1925
1926	---	27 9 ON APR 12	---	---	1926
1927	---	10 4 E ON APR 19	0 5958 ON MAR 4	220 000	1927
1928	---	82 4 ON MAY 6	0 4508 ON FEB 10	107 000	1928
1929	---	36 2 ON JUN 24	---	---	1929
1930	---	7 56 ON APR 29	---	---	1930
1959	---	---	---	---	1959
1960	---	9 66 ON MAY 11	0 8 ON MAR 1	---	1960
1961	---	26 1 ON APR 28	0 0578 ON MAR 1	---	1961
1962	---	3 88 ON APR 26	0 025 ON AUG 19	---	1962
1963	---	5 528 ON APR 21	0 8 ON MAR 1	---	1963
1964	---	14 9 B ON APR 3	0 8 ON MAR 1	---	1964
1965	---	17 6 ON MAY 9	0 091 ON SEP 14	---	1965
1966	---	30 0 ON MAY 6	0 0088 ON MAR 1	---	1966
1967	---	19 2 ON MAY 12	0 331 ON SEP 30	---	1967
1968	---	27 2 B ON APR 16	0 127 ON SEP 9	---	1968
1969	---	8 67 ON APR 25	0 340 ON JUN 29	---	1969
1970	91 2 AT 02 15 CST ON MAY 12 *	36 0 ON APR 15	0 4508 ON APR 7	---	1970
1971	33 4 AT 02 52 CST ON JUN 20	90 3 ON MAY 12 *	0 371 ON SEP 11	---	1971
1972	33 7 AT 05 48 CST ON MAY 3	32 8 ON JUN 20	0 7788 ON MAR 25	---	1972
1973	---	33 4 ON MAY 3	0 1768 ON DEC 31	135 000	1973
1974	43 0 AT 10 47 CST ON MAY 3	6 80A ON JUN 26	0 045 ON JUL 23	54 400	1974
1975	82 3 AT 08 40 CST ON SEP 27	43 0 ON MAY 3	0 402 ON SEP 15	187 000	1975
1976	58 7 AT 17 58 CST ON APR 19	59 7 ON SEP 27	0 3238 ON FEB 11	296 000	1976
1977	13 8 B AT 17 30 CST ON APR 16	59 2 ON APR 19	0 1308 ON DEC 9	210 000	1977
1978	17 0 AT 08 34 CST ON MAY 4	11 8 B ON APR 16	0 2158 ON JAN 14	87 800	1978
1979	50 8 AT 04 20 CST ON MAY 24	16 9 ON MAY 3	0 176 ON AUG 31	74 800	1979
1980	10 0 B AT 09 24 CST ON APR 12	49 5 ON MAY 24	0 137 ON OCT 7	189 000	1980
1981	9 92 AT 18 59 CST ON APR 8	7 41B ON APR 12	0 183 ON JUN 25	52 500	1981
1982	22 6 B AT 17 19 CST ON APR 22	8 22 ON APR 9	0 081 ON SEP 20	54 800	1982
1983	41 1 AT 22 34 CST ON APR 25	21 5 B ON APR 22	0 0058 ON MAR 21	73 800	1983
1984	7 94 AT 21 51 CST ON JUN 29	40 4 ON APR 27	0 024 ON SEP 25	107 000	1984
1985	16 7 AT 01 24 CST ON APR 22	7 86 ON JUN 29	0 0358 ON JAN 14	47 000	1985
1986	53 5 AT 17 33 CST ON MAY 12	16 3 ON APR 22	0 1498 ON MAR 30	88 200	1986
		52 0 ON MAY 13	0 321 ON SEP 13	182 000	MEAN
				121 000	

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO 05MF021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

EAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
961	---	---	0 256	2 05	3 13	0 715	0 167	0	0 017	0 048	---	---	0 797	1961
962	---	---	0 004	8 30	1 67	2 10	0 679	0 637	0 702	0 519	---	---	1 56	1962
963	---	---	1 30	14 5	7 11	7 62	3 64	1 20	1 44	2 02	---	---	4 82	1963
964	---	---	0 113	5 86	11 4	1 77	1 11	0 651	0 475	0 472	---	---	2 74	1964
985	---	---	0 227	9 75	22 6	14 8	6 64	1 92	8 49	5 26	---	---	8 88	1985
986	---	---	2 14	13 0	17 5	7 84	2 66	3 84	1 55	0 823	---	---	5 15	1986
987	---	---	0 263	19 4	22 1	8 24	3 52	0 981	0 218	0 397	---	---	6 73	1987
988	---	---	3 06	7 46	5 17	3 56	2 01	7 04	5 61	1 73	---	---	4 44	1988
989	---	---	0 404	32 6	12 3	4 85	20 6	4 90	2 36	2 45	---	---	10 0	1989
970	---	---	0 908	17 3	56 2	19 8	8 67	4 13	1 83	2 59	---	---	13 9	1970
971	---	---	0 783	13 2	10 5	26 8	15 0	8 71	2 47	4 81	---	---	9 98	1971
972	---	---	1 63	21 3	28 7	5 24	1 93	0 716	0 313	1 25	---	---	7 62	1972
973	---	---	1 27	2 27	2 04	2 57	1 55	1 13	2 21	4 26	---	---	2 16	1973
974	---	---	0 839	23 6	38 8	20 8	2 88	0 762	0 569	0 484	---	---	11 0	1974
975	---	---	0 334	8 99	22 4	12 0	5 44	5 39	27 5	26 3	---	---	13 5	1975
976	---	---	2 16	43 9	21 6	12 3	8 66	1 56	0 389	0 285	---	---	11 3	1976
977	---	---	1 61	4 20	3 80	1 88	3 84	1 81	2 19	4 53	---	---	2 89	1977
978	---	---	1 02	10 2	9 93	2 77	1 83	0 598	0 952	1 34	---	---	3 55	1978
AN	---	---	1 02	14 2	16 5	8 65	4 98	2 45	3 29	3 31	---	---	6 77	MEAN

LOCATION - LAT 50 06 30 N LONG 100 07 00 W
DRAINAGE AREA 3 480 km^2
REGULATED SINCE 1961

MARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO 05MF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.61 ON MAY 31	0 ON AUG 3 *	16 900	1961
1962	---	34.3 ON APR 21	0 E ON MAR 1	33 000	1962
1963	---	23.6 ON APR 15	0 E ON MAR 1	102 000	1963
1964	---	19.3 ON MAY 5	0.1138 ON MAR 1	58 000	1964
1965	---	46.2 ON JUL 21	0.2278 ON MAR 1	184 000	1965
1966	---	21.1 ON MAY 14	0.2838 ON MAR 1	130 000	1966
1967	---	46.7 B ON APR 16	0.0798 ON OCT 4	143 000	1967
1968	---	16.4 B ON MAR 27	0.388 ON JUL 3	94 000	1968
1969	---	92.0 ON APR 15	0.3988 ON MAR 1	212 000	1969
1970	---	95.7 ON MAY 14 *	0.5088 ON MAR 1	295 000	1970
1971	---	80.3 ON JUN 14	0.6518 ON MAR 1	211 000	1971
1972	---	41.1 E ON APR 20	0.178 ON SEP 12	161 000	1972
1973	---	5.75 ON OCT 12	0.0578 ON MAR 1	45 700	1973
1974	---	85.2 ON APR 21	0.368 ON OCT 3	234 000	1974
1975	---	66.8 ON SEP 29	0.3348 ON MAR 1	286 000	1975
1976	---	72.8 ON APR 21	0.224E ON OCT 6	239 000	1976
1977	---	10.7 ON APR 18	0.215 ON JUL 7	83 200	1977
1978	---	18.2 B ON APR 18	0.374E ON AUG 27	75 100	1978
				143 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO 05MF018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1944	---	---	---	---	---	---	---	5.73	2.32	2.44	---	---	---	1944
1945	---	---	---	12.1	12.5	7.65	5.99	2.20	1.13	1.03	---	---	---	1945
1946	---	---	---	18.6	10.2	3.30	3.71	1.24	1.02	4.71	---	---	---	1946
1947	---	---	---	14.8	28.0	18.6	35.5	6.23	2.87	2.45	3.07	---	---	1947
1948	---	---	0.795	13.2	35.3	6.16	7.68	5.80	1.73	1.11	1.03	---	---	1948
1949	---	---	---	---	5.24	7.14	4.74	5.50	1.44	0.968	1.63	---	---	1949
1950	---	---	---	10.3	30.3	23.6	20.3	12.4	4.73	4.73	---	---	---	1950
1951	---	---	0.585	14.1	17.2	6.57	2.91	0.626	1.14	2.95	---	---	---	1951
1952	---	---	0.097	9.17	3.81	2.14	1.35	0.722	9.29	2.87	---	---	---	1952
1953	---	---	0.026	12.3	19.6	25.6	17.7	8.57	4.25	3.49	---	---	---	1953
1954	---	---	---	9.15	13.3	20.3	15.5	4.34	5.35	10.8	5.51	---	---	1954
1955	---	---	---	24.3	23.2	19.6	13.0	3.84	1.68	1.85	1.35	0.847	---	1955
1956	0.389	0.280	0.919	15.4	31.5	43.7	43.2	13.4	5.95	4.06	6.10	3.13	14.0	1956
1957	2.32	1.74	7.05	18.0	31.6	11.4	7.86	2.98	1.98	1.54	2.04	1.35	7.53	1957
1958	0.461	0.147	3.45	9.50	3.29	1.41	1.80	0.229	0.017	0.278	0.719	0.172	1.79	1958
1959	0.009	0	0.697	5.34	6.40	2.95	0.795	0.409	0.340	1.40	1.83	0.895	1.76	1959
1960	1.22	0.760	0.084	11.9	19.7	18.7	6.86	0.585	0.809	0.607	0.646	0.575	5.27	1960
1961	0.557	0.583	0.544	0.254	0.139	0.589	0.612	0.650	0.379	0.083	0.032	0.324	0.386	1961
1962	0.519	0.880	1.01	0.191	0.392	1.85	1.34	0.714	0.117	0.966	0.983	0.789	0.812	1962
1963	1.33	1.43	0.887	6.97	9.23	12.0	5.19	1.58	0.884	1.32	0.767	1.73	3.61	1963
1964	1.67	1.62	1.85	2.01	10.0	2.83	1.53	0.590	0.132	0.179	0.450	1.88	2.03	1964
1965	2.01	2.02	1.96	7.13	15.9	12.3	5.93	2.78	7.88	5.87	3.26	4.35	5.97	1965
1966	4.04	3.60	2.66	3.23	17.2	8.68	2.37	3.26	1.31	0.611	0.751	0.667	4.04	1966
1967	1.90	2.22	2.05	16.1	20.3	8.46	2.48	0.782	0.268	0.116	1.07	2.18	4.87	1967
1968	2.17	2.10	1.40	4.14	4.29	3.18	2.27	6.15	5.04	1.79	2.14	2.27	3.08	1968
1969	2.41	2.04	1.53	26.6	11.4	3.63	17.4	4.44	1.70	1.85	2.10	2.63	6.49	1969
1970	2.82	2.49	2.52	8.81	51.5	19.2	8.09	3.63	1.77	2.64	4.34	2.55	9.24	1970
1971	2.55	2.37	2.19	7.57	11.8	20.4	13.3	6.16	2.50	6.44	5.37	4.22	7.00	1971
1972	2.15	1.72	1.63	19.1	25.9	6.45	1.78	0.948	0.858	0.880	0.880	0.659	5.20	1972
1973	0.807	0.713	0.584	0.798	1.93	2.49	1.49	0.953	2.38	5.62	2.51	1.62	1.82	1973
1974	1.10	1.08	1.01	21.5	36.6	19.4	2.77	1.16	1.09	1.07	0.883	0.822	7.39	1974
1975	0.817	0.775	0.751	6.47	21.9	10.5	5.46	4.76	33.8	23.2	8.80	4.01	9.31	1975
1976	3.41	2.81	2.38	47.8	22.1	12.0	10.2	1.93	0.879	0.832	0.722	0.749	8.79	1976
1977	0.725	0.682	0.433	1.42	3.81	1.61	3.45	2.17	2.01	4.96	1.89	1.54	2.05	1977
1978	1.47	1.48	1.48	7.16	11.1	3.46	1.72	1.02	0.836	0.784	0.827	0.842	2.89	1978
1979	0.783	0.778	0.791	21.4	38.4	21.2	4.13	1.04	0.825	0.826	0.816	0.820	7.76	1979
1980	0.808	0.786	0.801	1.45	3.07	0.973	1.12	1.46	4.72	3.46	1.24	1.63	1.71	1980
1981	1.57	1.51	1.23	3.71	3.77	3.80	2.28	1.11	1.09	1.04	1.24	1.75	2.01	1981
1982	1.46	1.52	1.40	8.92	9.71	3.34	1.55	1.46	1.31	0.841	1.56	1.12	2.85	1982
1983	1.05	1.05	1.04	15.1	18.0	8.35	4.42	1.85	1.18	1.08	0.930	0.887	4.59	1983
1984	0.877	0.303	0.085	0.245	4.15	3.59	2.39	1.19	0.963	0.535	0.745	0.780	1.30	1984
1985	0.734	0.697	1.43	7.56	6.54	2.53	1.60	2.86	3.63	4.43	4.97	0.994	3.17	1985
1986	0.842	0.844	0.983	23.0	30.0	8.15	3.97	2.33	1.14	2.78	1.86	0.852	8.42	1986
MEAN	1.23	1.32	1.38	11.4	16.9	10.1	7.09	3.08	2.65	2.77	2.07	1.55	4.68	MEAN

LOCATION - LAT 50 01 26 N
LONG 100 12 56 W
DRAINAGE AREA 3 910 km^2
REGULATED SINCE 1960

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO 05MF018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1944	...	...	...	...	1944
1945	...	...	...	...	1945
1946	...	...	...	...	1946
1947	...	...	...	...	1947
1948	...	...	...	...	1948
1949	...	64.5 ON MAY 5	...	...	1949
1950	...	...	...	...	1950
1951	...	57.8 ON MAY 24	...	...	1951
1952	...	32.0 B ON APR 4	...	...	1952
1953	...	32.3 ON SEP 12	0 B ON MAR 1 *	...	1953
1954	...	35.4 ON JUN 11	...	...	1954
1955	...	26.2 ON JUN 16	...	...	1955
1956	...	32.0 ON APR 12	...	...	1956
1957	...	65.1 ON JUN 26	...	...	1957
1958	...	59.5 ON MAY 3	0.2278 ON FEB 12	444 000	1958
1959	...	17.9 B ON APR 1	0.5388 ON DEC 28	237 000	1959
1960	...	9.06 ON MAY 21	0 ON SEP 10	56 500	1960
1961	...	29.4 ON APR 28	0 B ON JAN 13	55 500	1961
1962	...	0.725E ON JUN 30	0.085B ON MAR 5	167 000	1962
1963	...	1.88 E ON JUN 8	0 E ON NOV 13	12 200	1963
1964	...	35.7 ON JUN 11	0.008E ON OCT 4	25 800	1964
1965	...	14.8 ON MAY 11	0.020E ON MAR 30	114 000	1965
1966	...	26.7 ON JUL 21	0.045 ON SEP 18	64 300	1966
1967	...	19.5 ON MAY 14	1.84 ON APR 8	188 000	1967
1968	...	41.1 ON APR 19	0.048 ON APR 19	127 000	1968
1969	...	8.35 ON AUG 16	0.031 ON SEP 8	154 000	1969
1970	52.0 AT 02 05 CST ON MAY 18 *	103 A ON APR 15 *	0 ON APR 8	97 400	1970
1971	37.4 AT 18 00 CST ON JUN 16	87.2 ON MAY 15	0.093A ON APR 9	205 000	1971
1972	47.3 AT 01 21 CST ON APR 18	36.8 ON JUN 16	0.054 ON APR 21	291 000	1972
1973	...	45.9 ON APR 18	0.818 ON APR 14	221 000	1973
1974	70.2 AT 17 53 CST ON APR 21	7.16 ON OCT 24	0.462 ON SEP 5	184 000	1974
1975	52.1 AT 05 00 CST ON SEP 30	88.2 ON APR 21	0.314 ON SEP 1	57 300	1975
1976	73.8 AT 11 35 CST ON APR 21	51.5 ON SEP 30	0.810 ON DEC 25	233 000	1976
1977	8.13 AT 12 00 CST ON OCT 24	72.8 ON APR 21	0.7428 ON MAR 13	293 000	1977
1978	7.8 AT 13 20 CST ON MAY 8	7.82 ON JUL 23	0.885 ON OCT 31	278 000	1978
1979	39.9 AT 05 07 CST ON APR 24	17.0 ON MAY 8	0.258 ON JUL 10	84 800	1979
1980	10.4 AT 12 44 CST ON SEP 23	86.5 ON APR 24	0.765 ON NOV 2	84 900	1980
1981	8.23 AT 07 55 CST ON APR 13	8.20 ON SEP 24	0.7628 ON FEB 2	245 000	1981
1982	24.2 AT 14 13 CST ON APR 24	6.00 ON APR 13	0.034 ON JUL 27	54 100	1982
1983	48.6 AT 04 25 CST ON APR 24	23.9 ON APR 24	1.01 ON OCT 6	63 400	1983
1984	7.42 AT 21 14 CST ON MAY 23	47.8 ON APR 24	0.822 ON OCT 7	89 800	1984
1985	16.0 AT 19 27 CST ON APR 25	8.85 ON MAY 23	0.8618 ON DEC 17	145 000	1985
1986	51.9 AT 11 58 CST ON MAY 16	15.5 ON APR 24	0.035 ON MAR 29	41 200	1986
		51.3 ON MAY 16	0.580 ON AUG 2	100 000	1987
			0.386 ON SEP 12	202 000	1988
				148 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO 05MH005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

EAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
961	...	...	0	1.04	0.275	0	0	0	0	0	...	...	0.182	1961
962	...	...	0	3.87	0.144	0.184	0.006	0.003	0	0	...	...	0.518	1962
963	...	...	0.100	0.009	0.011	0.138	0.005	0	0	0	...	...	0.033	1963
964	...	...	0	2.74	0.182	0.025	0.026	0	0	0	...	...	0.388	1964
965	...	...	0	5.92	0.214	0.116	0.015	0	0.158	0.015	...	...	0.770	1965
966	...	...	1.25	0.438	0.219	0.130	0.091	0.004	0.013	0.004	...	...	0.267	1966
967	...	...	0	1.14	0.187	0.011	0	0	0	0	...	...	0.183	1967
968	...	...	0.484	0.049	0.009	0.001	0	0	0	0	...	...	0.088	1968
969	...	...	0	6.19	0.299	0.245	0.808	0.016	0.003	0	...	...	0.905	1969
970	...	...	0	4.14	1.17	0.084	0.218	0.002	0.002	0	...	...	0.883	1970
971	...	...	0.015	0.741	0.022	0.342	0.207	0.016	0	0	...	...	0.185	1971
972	...	...	1.80	0.528	0.110	0.119	0.004	0	0	0	...	...	0.297	1972
973	...	...	0	0	0.002	0.001	0	0	0	0	...	...	0	1973
974	...	...	0	9.80	2.02	0.140	0.001	0	0	0	...	...	1.47	1974
975	...	...	0	2.78	0.401	0.427	0.012	0.180	0.179	0.251	...	...	0.521	1975
976	...	...	0.032	12.2	0.337	0.089	0.006	0	0	0	...	...	1.56	1976
977	...	...	0.001	0	0	0	0	0	0	0	...	...	0	1977
978	...	...	0.156	1.41	0.088	0.003	0.001	0	0	0	...	...	0.204	1978
979	...	...	0	4.58	0.569	0.018	0.008	0.001	0	0	...	...	0.836	1979
980	...	...	0	0.252	0	0	0	0	0	0	...	...	0.031	1980
981	...	...	0.147	0.039	0.017	0	0	0	0	0	...	...	0.052	1981
982	...	...	0.525	3.33	0.187	0.040	0.004	0.170	0.021	0.020	...	...	0.505	1982
983	...	...	0.049	3.81	0.050	0.022	0	0.002	0	0	...	...	0.457	1983
984	...	...	0.140	0.027	0.289	0	0	0	0	0	...	...	0.059	1984
985	...	...	2.34	1.31	0.018	0.002	0	0.012	0.003	0.023	...	...	0.484	1985
986	...	...	2.07	0.705	0.777	0.001	0.015	0.017	0	0	...	...	0.451	1986
AN	...	...	0.342	2.57	0.282	0.082	0.047	0.018	0.018	0.012	...	...	0.417	MEAN

LOCATION - LAT 49 43 56 N
LONG 99 50 52 W
DRAINAGE AREA 454 km^2
NATURAL FLOW

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO 05MH008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	4 25 ON APR 8	0E ON MAR 1 *	3 430	1961
1962	---	38 2 ON APR 18	0E ON MAR 1	10 900	1962
1963	---	1 29 ON JUN 4	0E ON MAR 1	696	1963
1964	---	37 1 ON APR 12	0E ON MAR 1	8 160	1964
1965	---	36 2 E ON APR 13	0E ON MAR 1	16 300	1965
1966	---	10 7 E ON MAR 22	0E ON MAR 1	5 650	1966
1967	---	2 81 ON APR 27	0E ON MAR 1	3 450	1967
1968	---	2 86 E ON MAR 26	0E ON MAR 1	1 400	1968
1969	---	40 2 E ON APR 12	0E ON MAR 1	18 100	1969
1970	---	22 1 ON APR 26	0E ON MAR 1	14 800	1970
1971	---	3 00 E ON APR 7	0E ON MAR 1	3 500	1971
1972	---	8 50 E ON MAR 16	0E ON MAR 1	8 270	1972
1973	---	0 008 ON MAY 23	0E ON MAR 1	9 41	1973
1974	---	60 0 ON APR 20 *	0E ON MAR 1	31 200	1974
1975	---	17 5 ON APR 29	0E ON MAR 1	11 000	1975
1976	---	54 4 E ON APR 8	0 ON AUG 7	32 900	1976
1977	---	0 0078 ON MAR 16	0E ON MAR 1	2 51	1977
1978	---	9 60 E ON APR 1	0E ON MAR 1	4 320	1978
1979	58 4 E AT 07 24 CST ON APR 22 *	45 3 E ON APR 22	0E ON MAR 1	13 500	1979
1980	5 008 AT 17 40 CST ON APR 8	2 75 E ON APR 7	0E ON MAR 1	655	1980
1981	4 43 AT 16 44 CST ON AUG 25	2 11 ON AUG 26	0 ON MAY 28	1 110	1981
1982	22 8 E AT 15 08 CST ON APR 13	22 1 E ON APR 13	0E ON MAR 1	10 700	1982
1983	16 5 AT 18 21 CST ON APR 8	14 2 ON APR 8	0E ON MAR 1	9 670	1983
1984	---	2 21 E ON MAY 6	0E ON MAR 1	1 240	1984
1985	13 7 E AT 02 53 CST ON MAR 26	12 3 E ON MAR 26	0E ON MAR 1	9 820	1985
1986	20 8 E AT 20 42 CST ON MAR 23	16 2 E ON MAR 23	0E ON MAR 1	9 580	1986
				8 810	MEAN

E - ESTIMATED

E - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE WOODY RIVER NEAR BARROWS - STATION NO 05LC005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	---	---	---	---	0 521	0 075	0 053	0 154	---	---	---	1976
1977	---	---	0 076	1 14	0 505	0 190	0 915	1 51	1 15	0 762	---	---	0 782	1977
1978	---	---	0 089	0 754	1 44	0 552	0 391	0 202	0 334	0 728	---	---	0 559	1978
1979	---	---	0 087	0 432	3 20	1 25	0 169	0 048	0 177	0 213	---	---	0 685	1979
1980	---	---	0 085	1 18	0 245	0 207	0 145	0 585	0 619	---	---	---	---	1980
1981	---	---	0 058	1 33	0 714	0 585	0 534	0 160	0 296	1 07	---	---	0 591	1981
1982	---	---	0	0 330	1 07	0 589	2 06	0 270	0 162	0 351	---	---	0 606	1982
1983	---	---	0 094	0 587	2 78	1 93	0 892	0 169	0 357	0 183	---	---	0 872	1983
1984	---	---	0 083	2 45	2 77	2 06	0 252	0 059	0 270	1 02	---	---	1 11	1984
1985	---	---	0 142	1 89	1 55	1 38	0 854	2 26	0 714	1 12	---	---	1 24	1985
1986	---	---	0 077	1 19	1 72	0 841	0 498	0 415	0 357	0 394	---	---	0 661	1986
MEAN	---	---	0 073	1 13	1 80	0 937	0 657	0 522	0 407	0 800	---	---	0 791	MEAN

LOCATION - LAT 52 50 00 N DRAINAGE AREA 89 7 km^2
LONG 101 34 00 W NATURAL FLOW

LITTLE WOODY RIVER NEAR BARROWS - STATION NO 05LC005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	---	---	---	1976
1977	10 8 AT 17 48 CST ON AUG 10	7 87 ON AUG 10	0 040 ON JUN 29	16 800	1977
1978	4 73 AT 00 00 CST ON APR 29	4 25 ON APR 28	0 0578 ON MAR 1	11 800	1978
1979	11 9 AT 20 43 CST ON MAY 25	10 4 ON MAY 25	0 030 ON AUG 22	14 700	1979
1980	4 80 AT 17 59 CST ON SEP 4	4 05 ON APR 22	0 016 ON AUG 2	---	1980
1981	6 03 AT 12 55 CST ON OCT 13	4 84 ON OCT 13	0 032 ON SEP 2	12 800	1981
1982	---	22 7 ON JUL 17	0 E ON MAR 1 *	12 800	1982
1983	13 3 AT 11 04 CST ON JUN 3	10 3 ON JUN 3	0 056 ON SEP 3	18 500	1983
1984	9 40 AT 22 19 CST ON JUN 21	7 12 ON JUN 22	0 025 ON AUG 29	23 600	1984
1985	41 5 AT 15 09 CST ON AUG 13 *	26 7 ON AUG 13 *	0 1108 ON MAR 1	26 200	1985
1986	3 40 AT 17 44 CST ON APR 26	3 12 ON MAY 15	0 0688 ON MAR 3	14 000	1986
				16 700	MEAN

E - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER ABOVE BADGER CREEK — STATION NO 05DA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	0 885	0 089	0 056	0 015	0 012	0 022	0 021	---	---	---	1921
1922	---	---	---	0 886	0 116	0 026	0 069	0 009	0 009	0 011	---	---	---	1922
1923	---	---	---	---	0 456	0 464	0 319	0 074	---	---	---	---	---	1923
1924	---	---	---	---	1 20	0 455	0 144	0 090	0 012	0 174	---	---	---	1924
1925	---	---	---	1 15	0 393	1 49	0 286	0 043	0 036	0 052	---	---	---	1925
1926	---	---	---	0 184	0 056	0 241	0 195	0 032	0 030	---	---	---	---	1926
1927	---	---	---	1 03	5 80	2 60	1 37	0 337	0 225	0 259	---	---	---	1927
1928	---	---	2 13	0 556	0 233	1 99	2 14	0 416	0 105	0 064	0 048	---	---	1928
1929	---	---	---	---	0 203	0 145	0 023	0 016	0 027	0 038	---	---	---	1929
1930	---	---	---	---	0 934	---	---	---	---	---	---	---	---	1930
1936	---	---	---	---	0 137	0 039	---	---	---	---	---	---	---	1936
MEAN	---	---	2 13	0 782	0 875	0 751	0 507	0 114	0 056	0 088	0 048	---	---	MEAN

LOCATION - LAT 49 08 25 N LONG 99 32 40 W
DRAINAGE AREA 491 km²
NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1979

LONG RIVER ABOVE BADGER CREEK - STATION NO 05DA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	---	---	1921
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	10 4 ON MAY 24 *	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1936	---	---	---	---	1936
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

LONG RIVER NEAR HOLMFIELD - STATION NO 05DA006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0 358	0 106	0 076	0 022	0 008	0 333	0 023	1 34	---	---	0 286	1959
1960	---	---	0	6 02	1 94	1 21	0 061	0 004	0	0 002	---	---	1 14	1960
1961	---	---	0 083	0 518	0 252	0 039	0	0	0	0	---	---	0 138	1961
1962	---	---	0	1 27	0 243	1 88	0 181	0 380	0 082	0 046	---	---	0 476	1962
1963	---	---	0 408	1 29	0 538	1 45	0 230	0 066	0 021	0 005	---	---	0 496	1963
1964	---	---	0	2 27	0 897	0 345	0 085	0 018	0 030	0 019	---	---	0 452	1964
1965	---	---	0	3 20	1 49	1 07	0 704	0 613	0 350	0 232	---	---	0 950	1965
1966	---	---	1 82	2 07	1 93	0 560	0 709	0 187	0 014	0 029	---	---	0 813	1966
1967	---	---	0 054	1 34	0 887	0 219	0 048	0	0	0 017	---	---	0 318	1967
1968	---	---	0 140	0 268	0 190	0 040	0 047	0 852	1 28	0 272	---	---	0 358	1968
1969	---	---	0	8 98	2 28	0 522	1 49	0 126	0 020	0 072	---	---	1 67	1969
1970	---	---	0	2 83	3 93	1 12	0 418	0 044	0 089	0 061	---	---	1 06	1970
1971	---	---	0	2 89	1 12	2 52	2 16	0 129	0 074	0 496	---	---	1 17	1971
1972	---	---	3 03	5 54	1 93	2 64	0 383	0 598	0 104	0 140	---	---	1 76	1972
1973	---	---	0 435	0 247	0 398	0 711	0 549	0 167	0 280	0 169	---	---	0 366	1973
1974	---	---	0	11 2	6 57	1 99	0 232	0 067	0 049	0 108	---	---	2 50	1974
1975	---	---	0	4 95	3 96	1 44	0 258	0 089	0 166	0 268	---	---	1 38	1975
1976	---	---	0 287	11 2	1 30	0 272	0 027	0 003	0 003	0 063	---	---	1 82	1976
1977	---	---	0 131	0 134	0 235	0 016	0 080	0	0 004	0 014	---	---	0 077	1977
1978	---	---	0 015	2 50	1 08	0 448	0 025	0	0 004	0 005	---	---	0 504	1978
1979	---	---	0	5 29	3 12	0 421	0 033	0 003	0 002	0 010	---	---	1 10	1979
1980	---	---	0 002	0 704	0 008	0 005	0	0 053	0 048	0 113	---	---	0 115	1980
1981	---	0 235	0 218	0 101	0 193	0 146	0 042	0 124	0 036	0 053	---	---	0 115	1981
1982	---	---	0 495	5 42	0 920	0 517	0 113	0 009	0 005	0 135	---	---	0 940	1982
1983	---	---	0 852	3 21	0 671	0 114	0 014	0	0 002	0 018	---	---	0 579	1983
1984	---	---	1 06	0 441	0 548	0 019	0	0	0	0 011	---	---	0 261	1984
1985	---	---	2 36	1 08	0 090	0 026	0 008	0 037	0 014	0 020	---	---	0 455	1985
1986	---	---	0 822	1 61	1 15	0 095	0 339	0 116	0 121	0 712	---	---	0 621	1986
MEAN	---	0 235	0 441	3 10	1 35	0 702	0 294	0 138	0 099	0 158	---	---	0 779	MEAN

LOCATION - LAT 49 08 51 N LONG 99 24 51 W
DRAINAGE AREA 576 km²
REGULATED SINCE 1956

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1 06 AND 0 m^3/s OCCURRED IN FEB

LONG RIVER NEAR HOLMFIELD - STATION NO. 05DA005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	4.98 ON OCT 28	0 B ON MAR 1 *	5 050	1959
1960	---	15.8 B ON APR 7	0 B ON MAR 1	24 100	1960
1961	---	0.977B ON APR 18	0 B ON MAR 1	2 280	1961
1962	---	10.3 ON JUN 15	0 B ON MAR 1	10 100	1962
1963	---	4.81 ON JUN 5	0 B ON MAR 1	10 500	1963
1964	---	5.52 B ON APR 7	0 B ON MAR 1	9 580	1964
1965	---	8.86 B ON APR 13	0 B ON MAR 1	20 100	1965
1966	---	5.32 B ON MAR 31	0 B ON MAR 1	19 300	1966
1967	---	2.97 ON APR 29	0 B ON MAR 1	6 730	1967
1968	---	3.11 ON SEP 9	0 B ON MAR 1	7 590	1968
1969	---	33.1 B ON APR 13	0 B ON MAR 1	35 300	1969
1970	---	11.4 ON MAY 1	0 B ON MAR 1	22 300	1970
1971	---	7.76 ON APR 11	0 B ON MAR 1	24 700	1971
1972	---	13.8 B ON MAR 17	0 B ON MAR 1	37 800	1972
1973	---	2.70 ON JUN 22	0 B ON MAR 1	7 740	1973
1974	---	40.5 B ON APR 17 *	0 B ON MAR 1	53 000	1974
1975	---	17.8 ON APR 29	0 B ON MAR 1	29 200	1975
1976	---	24.1 B ON APR 2	0 ON JUL 26	34 300	1976
1977	---	2.41 ON MAY 21	0 ON JUL 9	1 630	1977
1978	---	5.66 ON MAY 26	0 B ON MAR 1	10 700	1978
1979	---	29.5 B ON APR 22	0 B ON MAR 1	23 300	1979
1980	---	3.02 B ON APR 5	0 B ON MAR 1	2 440	1980
1981	---	0.551 ON AUG 6	0.001 ON JUL 26	2 430	1981
1982	15.7 B AT 11 05 CST ON APR 3 *	11.4 B ON APR 3	0 B ON MAR 1	19 800	1982
1983	5.688 AT 11 49 CST ON APR 1	5.29 B ON APR 2	0 B ON MAR 1	12 300	1983
1984	4.568 AT 07 45 CST ON MAR 24	3.81 B ON MAR 23	0 ON JUN 25	5 520	1984
1985	---	12.5 B ON MAR 19	0 B ON MAR 1	8 640	1985
1986	4.78 AT 00 33 CST ON APR 21	4.41 ON APR 21	0 B ON MAR 1	13 100	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 500	MEAN

LONG RIVER NEAR KILLARNEY - STATION NO. 05DA013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.051	0.985	0.449	0.075	0.003	0	0	0	---	---	0.193	1967
1968	---	---	0.065	0.153	0.155	0.010	0.001	0.342	0.583	0.139	---	---	0.178	1968
1969	---	---	0	5.36	1.55	0.453	0.906	0.110	0.017	0.050	---	---	1.05	1969
1970	---	---	0.003	1.62	2.40	0.716	0.145	0.016	0	0	---	---	0.610	1970
1971	---	---	0	3.02	0.520	0.962	1.03	0.015	0	0.244	---	---	0.594	1971
1972	---	---	1.18	2.87	1.51	1.19	0.180	0.274	0.044	0.054	---	---	0.906	1972
1973	---	---	0.298	0.208	0.380	0.543	0.251	0.041	0.120	0.146	---	---	0.248	1973
1974	---	---	0	4.85	4.26	1.46	0.158	0.017	0.012	0.016	---	---	1.34	1974
1975	---	---	0	2.43	2.08	1.15	0.205	0.003	0.036	0.165	---	---	0.753	1975
1976	---	---	0.349	7.32	1.07	0.292	0.002	0	0	0	---	---	1.11	1976
MEAN	---	---	0.195	2.78	1.44	0.586	0.288	0.082	0.079	0.081	---	---	0.698	MEAN

LOCATION - LAT 49 10 20 N DRAINAGE AREA 209 km^2
LONG 99 40 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1979

LONG RIVER NEAR KILLARNEY - STATION NO. 05DA013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	2.06 ON APR 30	0B ON MAR 1 *	4 090	1967
1968	---	2.01 ON AUG 26	0B ON MAR 1	3 760	1968
1969	---	16.9 ON APR 12	0B ON MAR 1	22 100	1969
1970	---	6.40 ON APR 30	0B ON MAR 1	12 900	1970
1971	---	5.01B ON APR 7	0B ON MAR 1	12 800	1971
1972	---	4.67 ON JUN 14	0B ON MAR 1	19 200	1972
1973	---	3.03 ON JUN 21	0B ON MAR 1	5 250	1973
1974	---	20.2 ON APR 21	0B ON MAR 1	28 300	1974
1975	---	6.99E ON APR 29	0B ON MAR 1	15 900	1975
1976	---	20.5 ON APR 7 *	0 ON JUL 5	23 600	1976
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 800	MEAN

LONG RIVER NEAR LYONSHALL - STATION NO 05OA014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	---	---	---	---	---	---	---	---	---	1973
1974	---	---	0	4.85	4.18	0.259 1.31	0.285 0.100	0.087 0.038	0.194 0.019	0.110 0.014	---	---	---	1973
1975	---	---	0	2.47	1.82	0.624	0.057	0.025	0.050	0.090	---	---	1.30	1974
1976	---	---	0.188	3.76	0.862	0.199	0.024	0.003	0.001	0.004	---	---	0.837	1975
1977	---	---	0.008	0.028	0.069	0.002	0.002	0.002	0.006	0.003	---	---	0.822	1976
1978	---	---	0.023	0.500	0.414	0.160	0.041	0	0	0.004	---	---	0.025	1977
1979	---	---	0.008	1.89	0.863	0.189	0.050	0.003	0.052	0.211	---	---	0.142	1978
1980	---	---	0.005	0.131	0.003	0.004	0	0.005	0.070	0.121	---	---	0.380	1979
1981	---	0.217	0.151	0.115	0.137	0.242	0.052	0.011	0.002	0.024	---	---	0.042	1980
1982	---	---	0.028	1.13	0.482	0.232	0.038	0.020	0.002	0.052	---	---	0.083	1981
MEAN	---	0.217	0.046	1.85	0.981	0.328	0.072	0.021	0.040	0.043	---	---	0.246	1982

LOCATION - LAT 49 07 55 N DRAINAGE AREA 158 km²
LONG 99 48 04 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.09 AND 0 m³/s OCCURRED IN FEB

LONG RIVER NEAR LYONSHALL - STATION NO 05OA014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	---	---	---	1973
1974	25.4 AT 19:12 CST ON APR 21 *	21.3 ON APR 21 *	0B ON MAR 1 *	27 700	1974
1975	15.6 AT 08 11 CST ON APR 28	13.4 ON APR 29	0B ON MAR 1	13 500	1975
1976	9.66 AT 20 54 CST ON APR 7	7.42 ON APR 18	0 ON AUG 7	13 200	1976
1977	1.66 AT 14 16 CST ON JUL 11	1.26 ON JUL 11	0B ON MAR 1	533	1977
1978	5.35 AT 10 11 CST ON MAY 25	3.85 ON MAY 26	0 ON AUG 7	3 010	1978
1979	10.8 AT 00 00 CST ON APR 22	8.00 ON APR 22	0 ON JUL 20	8 030	1979
1980	---	---	---	---	1980
1981	---	0.2438 ON APR 1	0B ON MAR 1	894	1981
1982	6.40 AT 00 00 CST ON APR 16	0.388 ON JUN 24 5.38 ON APR 16	0 ON JUL 21 0B ON MAR 1	1 980 5 200	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 230	MEAN

LONG RIVER NEAR WAKOPA - STATION NO 05OA009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	0.046	0.045	0.121	0.034	0	0	0	---	---	0.030	1962
1963	---	---	0.245	0.503	0.154	0.431	0.020	0	0	0	---	---	0.187	1963
1964	---	---	0	0.706	0.454	0.219	0.085	0	0.036	0.025	---	---	0.187	1964
1965	---	---	0	1.62	0.989	0.646	0.645	0.428	0.241	0.087	---	---	0.578	1965
1966	---	---	0.861	1.42	1.48	0.259	0.410	0.054	0.001	0	---	---	0.561	1966
1967	---	---	0.003	0.737	0.350	0.047	0	0	0	0	---	---	0.141	1967
1968	---	---	0.055	0.191	0.118	0.008	0	0	0.328	0.313	0.182	---	0.149	1968
1969	---	---	0	5.82	1.52	0.612	0.752	0.098	0.012	0.032	---	---	1.09	1969
1970	---	---	0.045	2.14	2.40	0.575	0.219	0.058	0	0	---	---	0.677	1970
1971	---	---	0	1.28	0.441	1.07	1.00	0.057	0	0.329	---	---	0.519	1971
1972	---	---	0.693	2.94	1.92	0.872	0.111	0.174	0.059	0.081	---	---	0.849	1972
1973	---	---	0.182	0.124	0.242	---	---	---	---	---	---	---	---	1973
MEAN	---	---	0.175	1.46	0.842	0.442	0.296	0.109	0.080	0.088	---	---	0.450	MEAN

LOCATION - LAT 49 05 10 N DRAINAGE AREA 142 km²
LONG 99 50 10 W NATURAL FLOW

REMARKS - PUBLISHED AS "WAKOPA CREEK" PRIOR TO 1979

LONG RIVER NEAR WAKOPA - STATION NO 05OA009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	0.671 ON JUN 17	0B ON MAR 1 *	844	1962
1963	---	1.51 ON JUN 4	0B ON MAR 1	3 540	1963
1964	---	1.81 ON APR 17	0B ON MAR 1	3 950	1964
1965	---	3.06 B ON APR 17	0B ON MAR 1	12 300	1965
1966	---	3.00 B ON APR 1	0B ON MAR 1	11 900	1966
1967	---	0.986 ON APR 24	0B ON MAR 1	2 980	1967
1968	---	2.19 ON AUG 25	0B ON MAR 1	3 180	1968
1969	---	18.3 B ON APR 12 *	0B ON MAR 1	23 100	1969
1970	---	8.38 ON APR 29	0B ON MAR 1	14 300	1970
1971	---	5.92 ON JUN 15	0B ON MAR 1	11 000	1971
1972	---	4.30 B ON APR 16	0B ON MAR 1	18 000	1972
1973	---	---	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		9 530	MEAN

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 05EA008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	0.644	0.581	0.486	4.23	5.19	5.12	---	---	1.74	1.88	1.27	0.773	---	1977
1978	0.575	0.440	0.388	0.468	4.26	2.64	1.42	1.78	2.24	3.42	1.73	0.898	1.71	1978
1979	0.874	0.837	0.816	0.861	2.77	2.67	0.950	0.788	1.47	2.08	1.57	0.889	1.33	1979
1980	0.857	0.582	0.441	2.44	2.02	0.396	0.805	1.82	3.73	4.24	1.44	0.834	1.60	1980
1981	0.647	0.524	0.506	0.529	3.71	1.23	0.650	0.444	0.262	0.216	0.186	0.168	0.780	1981
1982	0.171	0.227	0.264	0.404	6.87	6.21	2.20	7.31	3.30	0.985	0.588	0.486	2.43	1982
1983	0.464	0.470	0.423	0.813	3.94	5.66	2.15	1.48	7.11	4.67	1.46	0.770	2.45	1983
1984	0.510	0.471	0.580	3.83	2.48	1.65	0.947	2.71	4.63	2.05	1.72	1.12	1.89	1984
1985	0.820	0.672	0.592	1.85	8.19	3.86	2.72	2.57	0.977	0.700	0.564	0.333	1.98	1985
1986	0.248	0.209	0.183	0.634	6.30	2.72	4.31	4.58	1.10	0.775	0.641	0.623	1.88	1986
MEAN	0.561	0.482	0.448	1.59	4.87	3.30	1.77	2.81	2.66	2.10	1.12	0.700	1.78	MEAN

LOCATION - LAT 56 03 15 N LONG 101 51 30 W DRAINAGE AREA, 1 400 km²
NATURAL FLOW

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 05EA008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	11.7 AT 18:30 CST ON MAY 30	11.5 ON MAY 30	0.357 ON APR 3	---	1977
1978	5.15 AT 22:04 CST ON MAY 10	5.10 ON MAY 7	0.3778 ON MAR 17	53 800	1978
1979	5.21 AT 01:50 CST ON MAY 27	5.07 ON MAY 26	0.476 ON APR 8	42 100	1979
1980	6.77 AT 22:04 CST ON APR 24	6.69 ON APR 24	0.312 ON JUN 24	50 700	1980
1981	6.58 AT 11:53 CST ON MAY 9	6.48 ON MAY 10	0.1858 ON DEC 25	24 000	1981
1982	12.1 AT 12:00 CST ON AUG 20	12.1 ON AUG 20	0.1608 ON JAN 7 *	78 800	1982
1983	12.5 AT 23:59 CST ON SEP 20 *	12.5 ON SEP 21 *	0.3958 ON MAR 25	77 400	1983
1984	8.27 ON AUG 24	8.10 ON AUG 24	0.283 ON AUG 8	59 700	1984
1985	11.1 AT 01:00 CST ON MAY 5	11.0 ON MAY 5	0.2908 ON DEC 31	62 500	1985
1986	10.2 ON MAY 17	10.2 ON MAY 17	0.1708 ON MAR 31	59 300	1986
				56 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05OD028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	4.24	0.037	0	0	0	0	0	---	---	0.524	1960
1961	---	---	0.142	0.441	0	0	0	0	0	0.001	---	---	0.072	1961
1962	---	---	0	3.29	0.754	0.101	0.134	0.014	0	0	---	---	0.529	1962
1963	---	---	0	0.027	0.007	1.78	0.251	0.027	0	0	---	---	0.259	1963
1964	---	---	0	2.17	1.05	4.32	0	0	0.254	0.015	---	---	0.980	1964
1965	---	---	0	5.34	0.275	0.001	0.032	0.014	1.09	0.881	---	---	0.939	1965
1966	---	---	0.480	5.11	1.70	0.183	0.843	0.011	0.112	0	---	---	1.17	1966
1967	---	---	1.47	5.44	3.46	0.001	0	0	0	0	---	---	1.78	1967
1968	---	---	1.92	0.778	0.012	0.248	2.15	1.36	3.31	0.173	---	---	1.24	1968
1969	---	---	0	3.22	0.278	0.207	0.013	0	0	0.030	---	---	0.481	1969
1970	---	---	0	3.91	1.73	1.02	0.005	0	0.085	0	---	---	0.830	1970
1971	---	---	0	3.07	0.032	0.028	0	0	0	0	---	---	0.383	1971
1972	---	---	0.502	1.31	0	0	0	0	0	0	---	---	0.223	1972
1973	---	---	0.375	0.002	0	0.148	0	0	0.136	0.373	---	---	0.130	1973
1974	---	---	0	6.85	2.76	0.105	0	0	0	0	---	---	1.18	1974
1975	---	---	0	1.23	0.168	0.895	0.130	0.002	0.001	0.001	---	---	0.274	1975
1976	---	---	0	2.08	0	0.052	0.001	0	0	0	---	---	0.261	1976
1977	---	---	0.026	0.274	0	0	0	0	0	0	---	---	0.037	1977
1978	---	---	0.738	1.90	0.003	0	0	0	0.011	0	---	---	0.328	1978
1979	---	---	0	7.85	0.374	0.267	0.008	0	0	0	---	---	1.06	1979
1980	---	---	0.003	1.00	0	0	0.001	0	0.001	0.003	---	---	0.124	1980
1981	---	---	0.325	0.044	0.014	0.003	0	0	0	0.001	---	---	0.048	1981
1982	---	---	0.186	1.29	0.006	0.034	0.293	0.026	0	0.134	---	---	0.242	1982
1983	---	---	1.16	2.07	0.104	0.005	0.001	0	0	0	---	---	0.414	1983
1984	---	---	0.151	0.182	0.003	0.105	0.002	0	0	0	---	---	0.055	1984
1985	---	---	1.04	0.183	0.037	0	0.001	0.107	0.034	0.124	---	---	0.192	1985
1986	---	---	2.08	1.83	1.21	0.001	0.014	0	0	0	---	---	0.616	1986
MEAN	---	---	0.391	2.59	0.519	0.345	0.144	0.058	0.186	0.064	---	---	0.531	MEAN

LOCATION - LAT 49 08 01 N LONG 97 08 42 W DRAINAGE AREA, 177 km²
NATURAL FLOW

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05DD028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	15.2 ON APR 6	0.08 ON MAR 1 *	11 100	1960
1961	---	1.87 B ON MAR 25	0.08 ON MAR 1	1 520	1961
1962	---	13.1 ON APR 23	0.08 ON MAR 1	11 200	1962
1963	---	12.9 ON JUN 25	0 ON MAR 1	5 470	1963
1964	---	35.4 ON JUN 12	0.08 ON MAR 1	20 300	1964
1965	---	24.4 B ON APR 12	0.08 ON MAR 1	19 900	1965
1966	---	19.8 B ON APR 2	0.08 ON MAR 1	24 700	1966
1967	---	28.6 ON MAR 31	0.08 ON MAR 1	37 700	1967
1968	---	19.8 ON SEP 7	0.08 ON MAR 1	25 300	1968
1969	---	10.7 ON APR 11	0.08 ON MAR 1	9 780	1969
1970	---	9.06 ON APR 22	0.08 ON MAR 1	17 800	1970
1971	---	18.2 ON APR 8	0.08 ON MAR 1	8 120	1971
1972	---	2.89 B ON APR 11	0.08 ON MAR 1	4 720	1972
1973	---	4.59 ON OCT 10	0.08 ON MAR 1	2 740	1973
1974	29.4 AT 20:00 CST ON APR 21	28.0 ON APR 17	0.08 ON MAR 1	24 900	1974
1975	7.56 AT 04:27 CST ON JUN 29	7.42 ON JUN 28	0.08 ON MAR 1	5 810	1975
1976	18.4 B AT 02:06 CST ON APR 5	16.5 B ON APR 3	0.08 ON MAR 1	5 530	1976
1977	4.87 AT 22:33 CST ON APR 9	2.38 ON APR 10	0.08 ON MAR 1	781	1977
1978	10.6 AT 10:10 CST ON APR 8	8.47 ON APR 9	0.08 ON MAR 1	6 950	1978
1979	49.7 AT 12:30 CST ON APR 19 *	45.6 ON APR 19 *	0.08 ON MAR 1	22 300	1979
1980	---	4.53 ON APR 7	0.08 ON MAR 1	2 820	1980
1981	---	0.5008 ON MAR 1	0 ON APR 22	1 030	1981
1982	9.85 AT 21:51 CST ON APR 14	5.86 ON APR 15	0.08 ON MAR 1	5 110	1982
1983	10.2 B AT 17:03 CST ON APR 4	8.34 B ON APR 5	0.08 ON MAR 1	8 780	1983
1984	1.808 AT 23:42 CST ON MAR 31	1.30 B ON MAR 31	0.08 ON MAR 1	1 180	1984
1985	5.83 AT 21:50 CST ON MAR 24	5.37 B ON MAR 25	0.08 ON MAR 1	4 060	1985
1986	---	17.2 B ON MAR 31	0 ON JUN 14	13 000	1986
				11 200	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN NEAR FREDENSTHAL - STATION NO. 05DD029

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

EAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
80	---	---	0.010	0.852	0	0	0	0	0	0	---	---	0.081	1960
61	---	---	0.022	0.038	0	0	0	0	0	0	---	---	0.007	1961
62	---	---	0	0.427	0.078	0	0	0.004	0	0	---	---	0.083	1962
63	---	---	0.001	0.004	0	0.915	0.008	0.008	0	0	---	---	0.114	1963
64	---	---	0	0.211	0.033	0.484	0.002	0	0.051	0.003	---	---	0.087	1964
65	---	---	0	0.171	0.029	0	0.287	0.087	0.332	0.248	---	---	0.138	1965
66	---	---	0.374	1.11	0.281	0.001	0.141	0.015	0.092	0	---	---	0.250	1966
67	---	---	0.056	0.688	0.213	0	0	0	0	0	---	---	0.118	1967
68	---	---	0.580	0.048	0	0.007	0.072	0.208	0.152	0	---	---	0.132	1968
69	---	---	0	0.259	0.004	0.018	0	0	0	0	---	---	0.035	1969
70	---	---	0	0.700	0.307	0.028	0	0	0.033	0	---	---	0.132	1970
71	---	---	0	0.583	0	0.007	0	0	0	0	---	---	0.070	1971
72	---	---	0.088	0.248	0	0	0	0	0	0	---	---	0.043	1972
73	---	---	0.045	0	0	0	0	0	0	0	---	---	0.018	1973
74	---	---	0	0.889	0.205	0.008	0	0	0.001	0.089	---	---	0.135	1974
75	---	---	0	0.193	0.017	0.025	0.008	0	0	0	---	---	0.030	1975
76	---	---	0	0.279	0	0.001	0	0	0	0	---	---	0.034	1976
77	---	---	0.048	0.027	0.003	0.001	0.001	0	0.001	0	---	---	0.010	1977
78	---	---	0.194	0.161	0.001	0	0.001	0.001	0.014	0	---	---	0.045	1978
79	---	---	0	1.88	0.022	0.015	0	0	0	0	---	---	0.210	1979
80	---	---	0.001	0.148	0	0	0	0	0	0.001	---	---	0.018	1980
1	---	---	0.032	0.006	0	0.002	0	0	0	0.002	---	---	0.005	1981
2	---	---	0.049	0.333	0.001	0.020	0.117	0.005	0	0.071	---	---	0.074	1982
N	---	---	0.065	0.384	0.052	0.067	0.027	0.013	0.029	0.017	---	---	0.081	MEAN

LOCATION - LAT 49 02 42 N
LONG 97 03 18 W

DRAINAGE AREA 23.8 km^2
NATURAL FLOW

MAIN DRAIN NEAR FREDENSTHAL - STATION NO 05OD029

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	3.43 ON APR 6	08 ON MAR 1 *	1 720	1960
1961	---	0.2158 ON APR 2	08 ON MAR 1	152	1961
1962	---	4.53 ON APR 21	08 ON MAR 1	1 330	1962
1963	---	8.50 R ON JUN 3	0 ON MAR 1	2 420	1963
1964	---	6.97 ON JUN 12	08 ON MAR 1	2 080	1964
1965	---	4.47 ON JUL 30	08 ON MAR 1	2 930	1965
1966	---	6.91 ON APR 2	08 ON MAR 1	5 280	1966
1967	---	3.17 ON APR 21	08 ON MAR 1	2 500	1967
1968	---	3.57 ON AUG 24	08 ON MAR 1	2 800	1968
1969	---	1.38 ON APR 11	08 ON MAR 1	731	1969
1970	---	4.73 ON APR 18	08 ON MAR 1	2 780	1970
1971	---	5.01 ON APR 7	08 ON MAR 1	1 480	1971
1972	---	0.6808 ON APR 10	08 ON MAR 1	904	1972
1973	---	0.597 ON OCT 8	08 ON MAR 1	330	1973
1974	---	8.50 B ON APR 15	08 ON MAR 1	2 850	1974
1975	---	2.48 ON APR 13	08 ON MAR 1	633	1975
1976	---	2.57 B ON APR 3	08 ON MAR 1	726	1976
1977	---	0.7848 ON MAR 28	08 ON MAR 1	214	1977
1978	1.76 AT 06 00 CST ON APR 9	1.34 B ON MAR 28	08 ON MAR 1	981	1978
1979	13.1 B AT 18 21 CST ON APR 18 *	12.1 B ON APR 18 *	08 ON MAR 1	4 460	1979
1980	1.87 AT 18 42 CST ON APR 2	1.80 B ON APR 3	08 ON MAR 1	387	1980
1981	0.1478 AT 21 10 CST ON MAR 28	0.1238 ON MAR 1	08 ON MAR 5	112	1981
1982	2.73 B AT 18 36 CST ON APR 12	2.25 B ON APR 12	08 ON MAR 1	1 570	1982
				1 710	MEAN

B - ICE CONDITIONS
R - REVISED SINCE JAN 1 1986
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN NEAR RIDGEVILLE - STATION NO 05OD033

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	0.285	0.644	0.021	0	0	0	0	0	---	---	0.115	1983
1984	---	---	0.111	0.035	0	0.003	0	0	0	0.003	---	---	0.018	1984
1985	---	---	0.204	0.010	0	0.003	0.001	0.024	0.010	0.019	---	---	0.034	1985
1986	---	---	0.681	0.489	0.314	0	0.010	0	0	0	---	---	0.185	1986
MEAN	---	---	0.315	0.280	0.084	0.002	0.003	0.005	0.003	0.006	---	---	0.088	MEAN

LOCATION - LAT 49 03 40 N
LONG 97 04 10 W
DRAINAGE AREA, 46.5 km^2
NATURAL FLOW

MAIN DRAIN NEAR RIDGEVILLE - STATION NO 05OD033

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	6.688 AT 18 51 CST ON APR 5 *	2.838 ON APR 6	08 ON MAR 1 *	2 440	1983
1984	3.038 AT 00 34 CST ON MAR 28	1.628 ON MAR 28	08 ON MAR 1	405	1984
1985	---	1.29E ON MAR 21	08 ON MAR 1	721	1985
1986	---	4.688 ON MAR 28 *	08 ON MAR 1	3 910	1986
				1 870	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	3.68	3.96	4.25	5.67	12.1	8.82	4.87	2.73	2.30	2.43	1.81	1.56	4.52	1913
1914	1.36	1.13	1.13	2.26	5.19	9.76	12.0	3.94	2.71	6.77	3.39	2.55	4.37	1914
1915	1.42	1.42	1.42	13.3	23.0	14.4	7.29	3.85	3.51	8.14	10.2	5.10	7.61	1915
1916	2.83	2.83	2.83	15.0	37.8	33.3	29.2	25.0	22.7	---	---	---	---	1916
1919	---	---	---	---	---	17.9	29.9	19.0	10.9	13.6	14.7	---	---	1919
1921	---	---	---	---	---	31.3	22.5	15.0	4.96	---	---	---	---	1921
1960	---	---	3.63	24.6	41.4	19.7	4.91	1.30	0.956	1.45	1.67	1.30	---	1960
1961	1.31	1.64	2.11	14.5	32.7	14.1	4.37	1.24	0.284	0.184	0.111	0.115	5.07	1961
1962	0.103	0.118	0.687	4.04	23.3	30.4	15.0	35.7	35.7	12.3	8.95	8.89	14.7	1962
1963	6.11	3.48	3.34	20.8	37.7	32.8	14.9	9.71	6.93	3.00	2.33	1.68	11.9	1963
1964	1.11	1.86	1.58	8.18	57.9	24.4	12.0	9.80	8.61	5.64	6.78	5.89	12.3	1964
1965	3.72	2.30	2.48	11.0	40.9	31.2	13.1	5.72	4.44	6.04	6.86	5.88	11.2	1965
1966	5.36	4.89	4.33	12.1	28.2	20.7	14.1	6.89	4.77	3.38	3.14	3.64	9.28	1966
1967	4.58	4.65	4.59	14.2	42.2	24.1	9.57	5.83	3.32	1.88	1.51	1.18	9.83	1967
1968	0.961	0.836	1.03	3.54	13.2	21.3	20.0	12.5	19.2	15.2	12.3	8.60	10.7	1968
1969	8.50	5.10	4.61	14.3	21.9	14.8	13.0	9.88	7.89	9.75	9.08	6.80	10.3	1969
1970	5.28	3.79	3.39	8.08	26.6	35.9	16.2	6.93	3.59	2.47	4.61	9.20	10.5	1970
1971	6.38	4.17	3.19	18.4	27.3	11.4	6.74	2.56	2.16	2.18	2.44	2.17	7.44	1971
1972	2.29	2.71	2.83	13.6	30.8	9.17	3.87	2.18	1.61	1.44	1.75	2.32	6.20	1972
1973	2.58	2.51	2.50	8.33	17.5	10.5	9.03	6.41	7.23	13.8	17.8	11.9	9.20	1973
1974	7.77	6.41	4.41	18.2	74.0	46.1	5.11	1.88	2.43	3.89	4.26	3.87	14.9	1974
1975	3.71	3.87	3.32	6.82	21.0	14.4	8.58	5.88	5.57	4.98	3.78	2.92	7.11	1975
1976	2.79	2.57	2.72	12.5	19.0	9.39	5.52	3.02	2.56	2.68	2.50	2.21	5.83	1976
1977	1.82	1.79	1.64	1.88	1.48	1.87	3.07	3.47	13.7	17.6	10.2	7.23	5.47	1977
1978	5.88	4.64	3.89	10.1	25.6	24.3	26.1	10.8	7.08	5.18	4.30	3.24	10.9	1978
1979	2.82	2.52	2.58	14.7	48.5	42.8	12.8	4.75	3.23	2.82	2.64	2.42	11.9	1979
1980	2.40	2.45	2.53	5.98	8.23	6.27	3.47	2.73	3.23	4.90	6.07	4.53	4.40	1980
1981	3.35	2.75	2.67	3.57	3.07	4.82	4.45	7.48	10.3	7.78	6.88	3.91	5.05	1981
1982	2.85	2.20	2.37	7.19	16.9	17.8	15.0	13.0	5.87	4.71	4.26	3.75	8.02	1982
1983	3.02	2.86	2.83	4.80	6.75	13.0	13.9	5.71	3.14	2.83	2.57	2.39	5.34	1983
1984	2.07	2.01	2.28	4.84	7.18	16.8	20.0	8.22	3.99	5.30	12.4	10.6	8.14	1984
1985	6.58	4.80	3.72	9.17	30.5	15.7	6.85	10.0	7.04	7.20	8.74	7.83	9.85	1985
1986	5.25	3.83	3.60	26.5	36.9	14.8	5.52	3.20	2.70	2.34	1.82	1.68	9.19	1986
MEAN	3.52	2.99	2.84	11.0	26.5	19.8	11.9	8.06	6.81	5.92	5.79	4.50	8.69	MEAN

LOCATION - LAT 51 05 54 N
LONG 96 17 00 W

DRAINAGE AREA 1 810 km²
NATURAL FLOW

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1913	---				
1914	---	13.5 ON MAY 19	1.36 ON SEP 28	142 000	1913
		17.5 ON JUL 8	1.10 B ON FEB 21	138 000	1914
1915	---				
1916	---	31.4 ON APR 28	1.42 B ON JAN 1		
		38.8 ON MAY 4	2.83 B ON JAN 1	240 000	1915
1919	---			---	1916
		32.8 ON JUL 10	---	---	1919
1921	---	---	---	---	1921
1960	---				
1961	---	58.6 ON APR 21	0.510 ON AUG 18		
1962	---	48.6 ON APR 22	0.085 ON NOV 1 *	---	1960
1963	---	68.8 ON AUG 24	0.099 ON JAN 1	191 000	1961
1964	---	46.2 ON MAY 21	1.30 ON DEC 30	463 000	1962
		72.8 ON MAY 9	0.980 ON JAN 17	376 000	1963
1965	---			390 000	1964
1966	---	50.1 ON MAY 27	1.83 B ON MAR 10		
1967	---	37.4 ON MAY 19	2.80 ON NOV 14	353 000	1965
1968	47.8 AT 17 00 CST ON MAY 12	46.4 ON MAY 9	0.949 ON DEC 28	293 000	1966
1969	23.2 AT 20 00 CST ON JUN 11	23.1 ON JUN 12	0.532 ON FEB 21	310 000	1967
	33.1 AT 12 00 CST ON APR 16	32.3 ON APR 16	3.85 ON MAR 29	340 000	1968
1970	43.0 AT 17 00 CST ON JUN 8			328 000	1969
1971	53.5 AT 13 45 CST ON MAY 5	42.5 ON JUN 8	2.12 ON OCT 23		
1972	41.1 AT 11 51 CST ON MAY 7	51.6 ON APR 20	1.71 ON AUG 19	332 000	1970
1973	22.8 AT 06 53 CST ON NOV 1	41.1 ON MAY 7	1.29 ON OCT 18	235 000	1971
1974	104 AT 15 32 CST ON MAY 6 *	22.7 ON NOV 1	2.05 ON MAR 9	198 000	1972
		103 ON MAY 6 *	1.60 ON JUL 28	290 000	1973
1975	25.6 AT 19 58 CST ON MAY 15	25.3 ON MAY 15		470 000	1974
1976	24.1 AT 21 29 CST ON MAY 9	23.9 ON MAY 8	2.38 B ON DEC 12		
1977	37.4 AT 18 34 CST ON SEP 10	34.0 ON SEP 10	1.88 ON DEC 28	224 000	1975
1978	35.4 AT 18 51 CST ON MAY 17	34.8 ON MAY 17	1.38 ON MAY 23	178 000	1976
1979	67.3 AT 17 49 CST ON MAY 31	66.3 ON JUN 1	2.97 B ON DEC 29	173 000	1977
1980	11.5 AT 13 11 CST ON APR 21		2.22 ON DEC 30	345 000	1978
1981	11.7 AT 15 37 CST ON SEP 6	11.4 ON APR 21		376 000	1979
1982	22.1 AT 17 09 CST ON MAY 22	11.3 ON SEP 12	2.19 ON JAN 3		
1983	22.4 AT 12 26 CST ON JUN 22	21.8 ON MAY 21	2.22 ON MAY 20	139 000	1980
1984	32.9 AT 16 27 CST ON JUN 23	20.0 ON JUN 22	1.71 B ON FEB 27	159 000	1981
		32.4 ON JUN 23	2.19 B ON DEC 25	253 000	1982
1985	36.7 AT 14 25 CST ON MAY 15	36.5 ON MAY 15	1.85 B ON JAN 10	188 000	1983
1986	47.0 AT 14 55 CST ON MAY 11	46.7 ON MAY 11		257 000	1984
			2.92 B ON MAR 3	311 000	1985
			1.51 B ON NOV 30	290 000	1986
				274 000	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MANNES DRAIN NEAR SANFORD - STATION NO. 05OGO10

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.120	0.008	0.110	0.021	0.004	0	0	0	---	---	0.033	1981
1982	---	---	0.010	0.348	0	0	0	0	0	0	---	---	0.044	1982
1983	---	---	0.059	1.16	0.001	0.042	0.002	0	0	0	---	---	0.185	1983
1984	---	---	0.013	0.095	0.007	0.002	0.002	0	0	0	---	---	0.015	1984
1985	---	---	0.571	0.391	0.002	0	0	0.015	0	0.014	---	---	0.124	1985
1986	---	---	0.236	0.583	0.180	0	0.012	0.001	0	0	---	---	0.126	1986
MEAN	---	---	0.168	0.431	0.050	0.011	0.003	0.003	0	0.002	---	---	0.083	MEAN

LOCATION - LAT 49 37 14 N DRAINAGE AREA 64.0 km²
LONG 97 22 32 W NATURAL FLOW

MANNES DRAIN NEAR SANFORD - STATION NO. 05OGO10

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1981	3.02 AT 02 43 CST ON MAY 23	1.84 R ON MAY 23	0.0 ON MAR 1 *	705	1981
1982	2.28 AT 06 35 CST ON APR 13	1.77 ON APR 13	0.0 ON MAR 1	928	1982
1983	6.39 AT 20 58 CST ON APR 6 *	5.84 ON APR 7 *	0.0 ON MAR 1	3 290	1983
1984	0.681 AT 18 48 CST ON APR 2	0.548 ON APR 2	0.0 ON MAR 1	313	1984
1985	4.63 B AT 02 42 CST ON MAR 25	3.63 B ON MAR 25	0.0 ON MAR 1	2 820	1985
1986	3.86 AT 19 35 CST ON MAR 30	3.28 ON APR 1	0.0 ON MAR 1	2 860	1986
				1 760	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05OEOO6

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.943	0.400	0.214	0.283	0	0	0	0	---	---	0.230	1961
1962	---	---	0	3.79	1.80	0.490	0.116	0.085	0.101	0.031	---	---	0.788	1962
1963	---	---	1.03	0.690	0.211	3.01	0.189	0.704	0	0	---	---	0.723	1963
1964	---	---	0	2.64	---	---	---	---	---	---	---	---	---	1964
1965	---	---	0	5.02	1.04	0.661	0.066	0.001	0.023	0.151	---	---	0.858	1965
1966	---	---	0.097	8.75	4.04	0.858	6.57	0.447	3.22	0.071	---	---	2.97	1966
1967	---	---	0.800	19.4	2.12	0.085	0.030	0.009	0.014	0.017	---	---	2.78	1967
1968	---	---	0.092	0.762	1.58	0.161	0.839	1.08	0.858	0.061	---	---	0.656	1968
1969	---	---	0	7.24	0.823	0.336	0.456	0.410	0.080	0.080	---	---	1.17	1969
1970	---	---	0	10.4	5.14	1.20	0.161	0.042	0.180	0.086	---	---	2.14	1970
1971	---	---	0	6.34	0.168	0.047	0.072	0.103	0.131	0.247	---	---	0.872	1971
1972	---	---	0.804	4.04	0.070	0.085	0.134	0.262	0.157	0.144	---	---	0.718	1972
1973	---	---	3.19	0.134	0.070	0.092	0.029	0.040	0.859	0.353	---	---	0.801	1973
1974	---	---	0	18.5	9.86	0.581	0.013	0.011	0.023	0	---	---	3.59	1974
1975	---	---	0	0.830	0.133	1.85	2.19	0.018	0.020	0.043	---	---	0.645	1975
1976	---	---	0	2.06	0.018	2.03	0.040	0.025	0.054	0.008	---	---	0.519	1976
1977	---	---	0.134	0.357	0.084	0.017	0.122	0.026	0.339	0.120	---	---	0.149	1977
1978	---	---	0.187	8.92	0.487	0.047	0.094	0.001	0.043	0.084	---	---	1.21	1978
1979	---	---	0	9.52	1.26	0.887	0.040	0.061	0.052	0.133	---	---	1.47	1979
1980	---	---	0	2.84	0.041	0.034	0.052	0.024	0.184	0.181	---	---	0.383	1980
1981	---	---	0.417	0.156	0.227	0.216	0.083	0.186	0.133	0.253	---	---	0.209	1981
1982	---	---	0.313	2.92	0.132	1.90	0.393	0.283	0.153	0.261	---	---	0.784	1982
1983	---	---	4.04	4.63	0.171	0.254	0.445	0.034	0.144	0.136	---	---	1.23	1983
1984	---	---	0.661	0.488	0.115	1.22	0.237	0.045	0.091	0.181	---	---	0.377	1984
1985	---	---	1.80	0.393	0.092	0.088	0.188	0.853	0.096	0.163	---	---	0.461	1985
1986	---	---	3.75	2.78	5.13	0.104	0.095	0.081	0.072	0.143	---	---	1.53	1986
MEAN	---	---	0.710	4.76	1.40	0.658	0.505	0.194	0.272	0.118	---	---	1.08	MEAN

LOCATION - LAT 49 37 50 N DRAINAGE AREA 494 km²
LONG 96 54 20 W NATURAL FLOW

MANNING CANAL NEAR ILE DES CHENES - STATION NO 05OE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---				
1962	---	11.9 B ON MAR 25	0.0 B ON MAR 1 *	4 880	1961
1963	---	37.4 ON APR 20	0.0 ON MAR 1	16 300	1962
1964	---	12.3 ON JUN 5	0.0 ON MAR 1	15 300	1963
		17.0 ON MAY 4	0.0 ON MAR 1	---	1964
1965	---				
1966	---	20.8 B ON APR 14	0.0 ON MAR 1	18 100	1965
1967	---	22.7 ON JUL 4	0.0 ON MAR 1	62 800	1966
1968	---	59.2 ON APR 21	0.0 ON MAR 1	58 800	1967
1969	---	15.9 ON MAY 15	0.0 ON MAR 1	13 900	1968
		31.4 ON APR 10	0.0 ON MAR 1	24 800	1969
1970	---				
1971	---	40.8 ON APR 18	0.0 ON MAR 1	45 300	1970
1972	---	45.3 ON APR 8	0.0 ON MAR 1	18 400	1971
1973	---	11.0 ON APR 16	0.0 ON MAR 1	15 200	1972
1974	---	13.6 B ON MAR 13	0.0 ON MAR 1	12 700	1973
		74.2 ON MAY 21 *	0.0 ON MAR 1	76 000	1974
1975	---				
1976	---	44.7 ON JUN 30	0.0 ON MAR 1	13 800	1975
1977	---	24.2 ON JUN 13	0.0 ON MAR 1	11 000	1976
1978	---	1.85 ON SEP 27	0.0 ON MAR 1	3 150	1977
1979	64.0 B AT 16 01 CST ON APR 19 *	42.5 B ON APR 9	0.0 ON MAR 1	25 700	1978
		81.2 B ON APR 19	0.0 ON MAR 1	31 200	1979
1980	29.0 B AT 06 36 CST ON APR 6	20.5 B ON APR 6	0.0 ON MAR 1	8 110	1980
1981	3.94 AT 08 00 CST ON JUN 29	3.62 ON JUN 29	0.0 ON JUL 13	4 430	1981
1982	---	13.8 B ON APR 13	0.0 ON MAR 1	16 800	1982
1983	25.6 B AT 06 52 CST ON APR 7	19.6 B ON APR 6	0.0 ON MAR 1	25 900	1983
1984	8.38 AT 08 58 CST ON JUN 13	7.71 ON JUN 13	0.0 ON MAR 1	7 950	1984
1985	---				
1986	42.1 B AT 08 08 CST ON MAR 28	10.5 B ON MAR 24	0.0 ON MAR 1	9 780	1985
		39.6 B ON MAR 29	0.0 ON AUG 29	32 300	1986
				22 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MANNING CANAL NEAR NIVERVILLE - STATION NO 05OE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	1.01	0.336	0.113	0.256	0	0	0	0	---	---	0.215	1961
1962	---	---	0	3.72	1.71	0.853	0.157	0.024	0.002	0	---	---	0.775	1962
1963	---	---	0.115	0.446	0.037	1.46	0.172	0.840	0	0	---	---	0.356	1963
1964	---	---	0	1.29	0.653	0.522	0.014	0.005	0.046	0.008	---	---	0.314	1964
1965	---	---	0	2.41	0.810	0.243	0.018	0.001	0.035	0.084	---	---	0.420	1965
1966	---	---	0.048	4.23	2.15	0.118	3.51	0.289	1.87	0.017	---	---	1.50	1966
1967	---	---	0.746	11.9	0.848	0.022	0.015	0	0.006	0.011	---	---	1.85	1967
1968	---	---	0.005	0.385	1.20	0.110	0.708	0.385	0.198	0.050	---	---	0.381	1968
1969	---	---	0	3.51	0.048	0.041	0.085	0.201	0.026	0.041	---	---	0.488	1969
1970	---	---	0	7.96	3.55	0.487	0.045	0.086	0.141	0.089	---	---	1.52	1970
1971	---	---	0	3.52	0.070	0.037	0.040	0.024	0.056	0.103	---	---	0.472	1971
1972	---	---	1.35	3.82	0.118	0.020	0.056	0.078	0.077	0.111	---	---	0.688	1972
1973	---	---	2.40	0.082	0.022	0.077	0.008	0.019	0.971	0.432	---	---	0.503	1973
1974	---	---	0	11.7	5.51	0.117	0	0.009	0.031	0.005	---	---	2.15	1974
1975	---	---	0	0.880	0.115	0.788	1.04	0.009	0.013	0.028	---	---	0.332	1975
1976	---	---	0	0.914	0.014	0.985	0.026	0.011	0.022	0.030	---	---	0.248	1976
1977	---	---	0.132	0.208	0.089	0.013	0.059	0.007	0.284	0.089	---	---	0.108	1977
MEAN	---	---	0.342	3.36	0.992	0.350	0.351	0.104	0.210	0.052	---	---	0.714	MEAN

LOCATION - LAT 49 36 10 N DRAINAGE AREA 277 km^2
LONG 96 50 50 W NATURAL FLOW

MANNING CANAL NEAR NIVERVILLE - STATION NO 05OE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---				
1962	---	8.958 ON MAR 25	0.0 ON MAR 1 *	4 550	1961
1963	---	28.5 E ON APR 18	0.0 ON MAR 1	18 400	1962
1964	---	4.73 ON AUG 4	0.0 ON MAR 1	7 540	1963
		4.28 ON MAY 6	0.0 ON MAR 1	8 640	1964
1965	---				
1966	---	12.8 B ON APR 14	0.0 ON MAR 1	8 880	1965
1967	---	16.0 ON JUL 4	0.0 ON MAR 1	31 700	1966
1968	---	47.9 ON APR 21 *	0.0 ON MAR 1	35 200	1967
1969	---	8.71 ON MAY 15	0.0 ON MAR 1	8 070	1968
		21.7 ON APR 10	0.0 ON MAR 1	10 300	1969
1970	---				
1971	---	26.6 ON APR 16	0.0 ON MAR 1	32 200	1970
1972	---	27.8 ON APR 8	0.0 ON MAR 1	9 980	1971
1973	---	9.008 ON APR 12	0.0 ON MAR 1	14 700	1972
1974	---	11.2 B ON MAR 13	0.0 ON MAR 1	10 700	1973
		46.7 ON MAY 21	0.0 ON MAR 1	45 800	1974
1975	---				
1976	---	13.8 ON JUN 30	0.0 ON MAR 1	7 020	1975
1977	---	12.3 ON JUN 13	0.0 ON MAR 1	5 200	1976
		1.44 ON SEP 27	0.0 ON MAR 1	2 280	1977
				15 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO 05DE008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	13.9	19.0	0.076	0.176	0.042	0.010	0.174	---	---	4.17	1969
1970	---	---	0	17.1	17.8	0.921	0.091	0.005	0.178	0.005	---	---	4.46	1970
MEAN	---	---	0	15.5	18.3	0.499	0.134	0.024	0.094	0.090	---	---	4.32	MEAN

LOCATION - LAT 49 31 50 N, LONG 97 08 30 W DRAINAGE AREA 452 km² NATURAL FLOW

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO 05DE008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	52.4 ON MAY 1 *	0.8 ON MAR 1 *	88 400	1969
1970	---	44.2 ON MAY 1	0.8 ON MAR 1	94 400	1970
				91 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARSH RIVER NEAR OTTERBURNE - STATION NO 05DE010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	7.05	0.167	0.020	0.003	0	0	0	---	---	0.886	1971
1972	---	---	0.012	3.83	0.167	0.010	0.001	0.001	0.001	0.001	---	---	0.493	1972
1973	---	---	0.385	0.337	0.027	0.003	0	0	0.044	0	---	---	0.099	1973
1974	---	---	0	25.1	18.8	0.937	0.018	0	0	0	---	---	5.58	1974
1975	---	---	0	0.791	5.82	0.762	2.11	0.007	0	0	---	---	1.17	1975
1976	---	---	0	3.73	0.079	0.090	0.022	0	0	0	---	---	0.481	1976
1977	---	---	0	0.208	0.125	0.125	0.005	0	0.012	0.005	---	---	0.059	1977
1978	---	---	0.096	26.8	2.82	0	0.012	0	0	0	---	---	3.66	1978
1979	---	---	0	27.1	55.5	0.588	0.001	0.001	0	0.001	---	---	10.4	1979
1980	---	---	0	2.62	0.074	0.019	0.001	0.004	0.002	0.010	---	---	0.334	1980
1981	---	---	0.868	0.320	0.405	0.539	0.144	0.141	0.092	0.044	---	---	0.294	1981
1982	---	---	0.122	3.14	0.172	0.459	0.131	0.028	0	0	---	---	0.499	1982
1983	---	---	1.42	7.58	0.226	0	0	0	0	0	---	---	1.14	1983
1984	---	---	0.033	0.176	0.040	0.827	0.182	0.017	0	0	---	---	0.155	1984
1985	---	---	2.38	0.848	0.003	0	0	0.011	0.007	0.001	---	---	0.409	1985
1986	---	---	1.22	5.82	2.24	0.037	0	0	0	0	---	---	1.17	1986
MEAN	---	---	0.397	7.22	5.41	0.275	0.183	0.013	0.010	0.004	---	---	1.88	MEAN

LOCATION - LAT 49 30 00 N, LONG 97 09 20 W DRAINAGE AREA 446 km² NATURAL FLOW

MARSH RIVER NEAR OTTERBURNE - STATION NO 05DE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	42.8 ON APR 11	0 B ON MAR 1 *	18 800	1971
1972	---	10.4 ON APR 18	0 B ON MAR 1	10 400	1972
1973	---	0.758 ON APR 6	0 B ON MAR 1	2 100	1973
1974	---	89.9 ON APR 21	0 B ON MAR 1	118 000	1974
1975	---	16.1 ON MAY 12	0 B ON MAR 1	24 800	1975
1976	---	15.7 ON APR 10	0 B ON MAR 1	10 200	1976
1977	---	0.7708 ON APR 14	0 B ON MAR 1	1 280	1977
1978	42.5 B AT 12 14 CST ON APR 23	42.2 B ON APR 23	0 B ON MAR 1	77 500	1978
1979	93.8 AT 21 14 CST ON MAY 6 *	93.0 ON MAY 6 *	0 B ON MAR 1	221 000	1979
1980	7.32 AT 08 38 CST ON APR 10	6.67 B ON APR 10	0 B ON MAR 1	7 070	1980
1981	4.46 AT 08 55 CST ON MAY 31	4.25 ON MAY 31	0.001 ON JUL 29	5 220	1981
1982	14.7 AT 09 45 CST ON APR 16	14.3 ON APR 16	0 B ON MAR 1	10 600	1982
1983	---	26.0 B ON APR 7	0 B ON MAR 1	24 000	1983
1984	3.35 AT 07 48 CST ON JUN 10	3.24 ON JUN 10	0 B ON MAR 1	3 270	1984
1985	12.4 AT 12 00 CST ON MAR 25	11.4 B ON MAR 25	0 B ON MAR 1	8 550	1985
1986	30.7 AT 14 00 CST ON APR 1	30.6 ON APR 1	0 B ON MAR 1	24 800	1986
				35 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARY JANE CREEK AT LA RIVIERE - STATION NO 05OB013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.002	3.15	0.094	0.038	0.008	0.006	0.008	0.012	---	---	0.807	1960
1961	---	---	0.190	0.301	0.051	0.026	0.022	0.024	0.035	0.036	---	---	0.142	1961
1962	---	---	0	2.08	0.150	0.046	0.025	0.019	0.018	0.013	---	---	0.560	1962
1963	---	---	0.142	0.072	0.041	0.106	0.049	0.034	0.029	0.025	---	---	0.091	1963
1964	---	---	0.028	0.524	0.071	0.024	0.032	0.025	0.022	0.018	---	---	0.160	1964
1965	---	---	0	1.83	0.124	0.030	0.013	0.010	0.016	0.019	---	---	0.441	1965
1966	---	---	1.04	1.19	0.541	0.036	0.012	0.006	0.008	0.006	---	---	0.702	1966
1967	---	---	0.015	1.70	0.246	0.011	0.011	0	0	0	---	---	0.488	1967
1968	---	---	0.935	0.205	0.284	0.115	0.413	0.944	0.311	0.068	---	---	0.388	1968
1969	---	---	0.018	4.76	0.140	0.185	0.362	0.025	0.014	0.013	---	---	1.25	1969
1970	---	---	0	4.71	1.53	0.117	0.181	0.027	0.017	0.012	---	---	1.57	1970
1971	---	---	0	0.781	0.089	0.040	0.010	0.010	0.010	0.018	---	---	0.224	1971
1972	---	---	1.80	2.13	0.091	0.021	0.014	0.012	0.011	0.011	---	---	0.959	1972
1973	---	---	0.019	0.014	0.019	0.021	0.020	0.014	0.008	0.006	---	---	0.018	1973
1974	---	---	0.002	4.35	1.93	0.079	0.010	0.008	0.003	0.004	---	---	1.58	1974
1975	---	---	0	0.891	0.197	0.077	0.081	0.009	0.004	0.003	---	---	0.239	1975
1976	---	---	0.002	3.16	0.096	0.015	0.003	0.001	0	0	---	---	0.805	1976
1977	---	---	0	0	0.050	0.118	0.020	0	0.088	0.043	---	---	0.042	1977
1978	---	---	0.026	1.77	0.138	0.038	---	---	---	---	---	---	0.487	1978
1979	---	---	0.001	2.08	0.915	0.343	---	---	---	---	---	---	0.829	1979
1980	---	---	0.001	0.376	0.091	0.049	---	---	---	---	---	---	0.128	1980
1981	---	---	0.087	0.025	0.021	0.009	---	---	---	---	---	---	0.036	1981
1982	---	---	0.023	0.516	0.024	0.028	---	---	---	---	---	---	0.146	1982
MEAN	---	---	0.180	1.57	0.301	0.087	0.072	0.085	0.032	0.017	---	---	0.526	MEAN

LOCATION - LAT 49 14 21 N DRAINAGE AREA 138 km²
LONG 98 40 28 W REGULATED

MARY JANE CREEK AT LA RIVIERE - STATION NO 05OB013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	13.8 ON APR 12	0.8 ON MAR 1 *	8 520	1960
1961	---	1.20 B ON MAR 29	0.017 ON JUN 25	1 490	1961
1962	---	11.2 ON APR 18	0.8 ON MAR 1	5 910	1962
1963	---	0.6548 ON MAR 25	0.8 ON MAR 1	955	1963
1964	---	3.57 ON APR 11	0.008 ON JUN 9	1 890	1964
1965	---	8.55 B ON APR 12	0.8 ON MAR 1	4 640	1965
1966	---	3.77 B ON MAR 30	0.8 ON MAR 1	7 400	1966
1967	---	10.7 R ON APR 21	0.8 ON MAR 1	5 140	1967
1968	---	3.71 ON MAR 27	0.8 ON MAR 1	4 090	1968
1969	---	32.0 ON APR 10 *	0.0148 ON MAR 1	13 200	1969
1970	---	27.8 ON APR 25	0.8 ON MAR 1	15 800	1970
1971	---	3.09 ON APR 19	0.8 ON MAR 1	2 380	1971
1972	---	3.62 B ON MAR 21	0.8 ON MAR 1	10 100	1972
1973	---	0.051 ON MAR 24	0.8 ON MAR 1	193	1973
1974	---	21.0 ON APR 17	0.0028 ON MAR 1	15 700	1974
1975	---	1.94 B ON APR 13	0.8 ON MAR 1	2 520	1975
1976	---	14.8 ON APR 7	0.0028 ON MAR 1	8 490	1976
1977	---	0.351 ON JUN 20	0.8 ON MAR 1	439	1977
1978	---	5.75 ON APR 8	0.0058 ON MAR 1	5 130	1978
1979	---	12.0 E ON APR 22	0.8 ON APR 11	8 740	1979
1980	---	1.82 ON APR 7	0 ON MAR 31	1 350	1980
1981	---	0.2318 ON MAR 16	0.8 ON MAR 1	378	1981
1982	1.868 AT 12 00 CST ON APR 13 *	1.44 B ON APR 13	0.8 ON MAR 1	1 540	1982
				5 550	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

MCKINNON CREEK NEAR MCCREARY - STATION NO 05LJ027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0	0.383	0.878	0.180	0.069	0.022	0.052	0.391	---	---	0.222	1959
1960	---	---	0	1.29	1.04	0.303	0.032	0.056	0.030	0.089	---	---	0.352	1960
1961	---	---	0.017	0.315	0.438	0.034	0.002	0	B	0.008	---	---	0.102	1961
1962	---	---	0	0.355	0.498	0.349	0.078	0.037	0.026	0.082	---	---	0.177	1962
1963	---	---	0.315	2.05	0.622	0.825	0.097	0.041	0.067	0.047	---	---	0.502	1963
1964	---	---	0	0.774	0.342	0.074	0.039	0.014	0.017	0.021	---	---	0.159	1964
1965	---	---	0.014	0.549	1.18	0.403	0.133	0.073	0.709	0.192	---	---	0.405	1965
1966	---	---	0.262	0.822	0.710	0.148	0.071	0.096	0.038	0.083	---	---	0.275	1966
1967	---	---	0.029	0.845	1.45	0.168	0.073	0.026	0.001	0.073	---	---	0.333	1967
1968	---	---	0.056	0.391	0.385	0.222	0.224	0.209	0.140	0.102	---	---	0.218	1968
1969	---	---	0	1.43	0.386	0.835	0.585	0.097	0.126	0.151	---	---	0.445	1969
1970	---	---	0.037	0.848	2.54	0.851	0.267	0.089	0.115	0.179	---	---	0.589	1970
1971	---	---	0	1.10	0.341	1.81	0.352	0.085	0.085	0.508	---	---	0.505	1971
1972	---	---	0.059	1.02	0.848	0.183	0.076	0.054	0.030	0.041	---	---	0.289	1972
1973	---	---	0.092	0.282	0.312	0.443	0.066	0.110	0.235	0.301	---	---	0.229	1973
1974	---	---	0	1.68	2.32	0.502	0.148	0.078	0.078	0.088	---	---	0.610	1974
1975	---	---	0	0.708	1.01	1.04	0.137	0.877	3.11	0.859	---	---	0.972	1975
1976	---	---	0.001	3.41	0.519	0.598	0.120	0.052	0.036	0.045	---	---	0.589	1976
1977	---	---	0.008	0.186	0.212	0.093	0.414	0.083	0.376	0.153	---	---	0.188	1977
1978	---	---	0.008	0.965	0.337	0.128	0.061	0.025	0.080	0.084	---	---	0.209	1978
1979	---	---	0.003	0.813	2.13	0.403	0.092	0.051	0.044	0.053	---	---	0.446	1979
1980	---	---	0.001	0.524	0.098	0.029	0.021	0.088	0.091	0.171	---	---	0.124	1980
1981	---	---	0.148	0.239	0.342	0.519	0.089	0.058	0.044	0.075	---	---	0.189	1981
1982	---	---	0.010	1.47	0.548	0.176	0.083	0.034	0.072	0.134	---	---	0.309	1982
1983	---	---	0	1.18	0.903	0.548	0.670	0.072	0.095	0.074	---	---	0.441	1983
1984	---	---	0.062	0.280	0.517	0.540	0.183	0.002	0.118	0.316	---	---	0.249	1984
1985	---	---	0.138	1.24	0.288	0.591	0.237	0.393	0.248	0.348	---	---	0.431	1985
1986	---	---	0.272	1.35	2.23	0.302	0.321	0.105	0.061	0.105	---	---	0.593	1986
MEAN	---	---	0.055	0.946	0.829	0.425	0.188	0.102	0.219	0.173	---	---	0.363	MEAN

LOCATION - LAT 50 48 00 N DRAINAGE AREA 78.2 km²
LONG 99 28 46 W NATURAL FLOW

MCKINNON CREEK NEAR MCCREARY - STATION NO 05LJ027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	5.38 AT 21 30 CST ON MAY 3	2.61 ON MAY 4	0 B ON MAR 1 *	4 710	1959
1960	5.18 AT 19 45 CST ON MAY 26	3.74 ON APR 21	0 B ON MAR 1	7 460	1960
1961	---	1.24 ON APR 30	0 B ON MAR 1	3 150	1961
1962	4.02 AT 07 10 CST ON MAY 30	3.45 ON MAY 30	0 B ON MAR 1	3 750	1962
1963	11.3 AT 19 00 CST ON APR 15	6.46 ON JUN 10	0 B ON MAR 1	10 600	1963
1964	5.698 AT 02 10 CST ON APR 25	4.388 ON APR 25	0 B ON MAR 1	3 380	1964
1965	8.01 AT 01 00 CST ON APR 30	5.07 ON APR 30	0 0.148 ON MAR 1	8 580	1965
1966	---	3.88 ON MAY 5	0 0.118 ON MAR 1	5 830	1966
1967	---	3.03 ON MAY 7	0 ON AUG 27	7 040	1967
1968	3.31 AT 00 30 CST ON APR 21	2.13 ON APR 21	0 B ON MAR 1	4 570	1968
1969	9.83 AT 08 35 CST ON JUN 27	7.598 ON APR 13	0 B ON MAR 1	9 400	1969
1970	8.61 AT 01 42 CST ON MAY 8	6.43 ON MAY 7	0.034 ON SEP 10	12 500	1970
1971	12.0 AT 13 28 CST ON JUN 6	9.34 ON JUN 6	0 B ON MAR 1	10 700	1971
1972	---	3.858 ON APR 25	0 B ON MAR 1	6 120	1972
1973	4.68 AT 20 40 CST ON JUN 20	2.86 ON JUN 20	0.011 ON JUL 23	4 850	1973
1974	8.62 AT 01 26 CST ON MAY 12	6.71 ON APR 27	0 B ON MAR 1	12 900	1974
1975	28.7 AT 10 07 CST ON SEP 19 *	28.6 ON SEP 19 *	0 B ON MAR 1	20 600	1975
1976	---	8.388 ON APR 6	0 B ON MAR 1	12 500	1976
1977	10.5 AT 00 52 CST ON JUL 12	4.81 ON JUL 12	0 B ON MAR 1	3 980	1977
1978	3.85 AT 00 08 CST ON APR 26	3.00 ON APR 24	0 B ON MAR 1	4 420	1978
1979	8.95 AT 06 01 CST ON MAY 17	7.27 ON MAY 17	0.0038 ON MAR 1	8 490	1979
1980	2.01 AT 01 33 CST ON APR 19	1.35 ON APR 19	0 ON JUN 26	2 840	1980
1981	2.05 AT 20 30 CST ON JUN 15	1.36 ON JUN 15	0 B ON MAR 1	4 010	1981
1982	7.788 AT 22 17 CST ON APR 22	4.44 ON APR 23	0 B ON MAR 1	6 550	1982
1983	8.848 AT 23 43 CST ON APR 24	5.388 ON APR 24	0 B ON MAR 1	9 330	1983
1984	6.96 AT 13 01 CST ON JUN 23	5.09 ON JUN 23	0 B ON MAR 1	5 270	1984
1985	3.568 AT 15 46 CST ON APR 20	2.818 ON APR 21	0 B ON MAR 1	9 120	1985
1986	20.4 AT 03 49 CST ON MAY 6	15.6 ON MAY 6	0 B ON MAR 1	12 600	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 680	MEAN

MEDORA CREEK NEAR NAPINKA - STATION NO 05NG020

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0.378	0.125	0.079	0.071	0.020	0	0	0	---	---	0.084	1965
1967	---	---	0.002	0.220	0.089	0	0	0	0	0	---	---	0.040	1967
1968	---	---	0.023	0.007	0	0	0	0.136	0.237	0.029	---	---	0.054	1968
1969	---	---	0	2.99	0.415	0.115	0.170	0.024	0	0	---	---	0.457	1969
1970	---	---	0	1.36	0.520	0.010	0.001	0	0	0	---	---	0.234	1970
1971	---	---	0	0.183	0.007	0.385	0.386	0	0	0.003	---	---	0.117	1971
1972	---	---	0.973	0.214	0.038	0.136	0.084	0.020	0.022	0.001	---	---	0.187	1972
1973	---	---	0.015	0.005	0.013	0.004	0.001	0	0	0	---	---	0.005	1973
1974	---	---	0	2.84	0.708	0.096	0.009	0	0	0	---	---	0.452	1974
1975	---	---	0	3.84	1.10	0.144	0.026	0.123	0.097	0.208	---	---	0.859	1975
1976	---	---	0	8.80	0.329	0.178	0.011	0	0	0	---	---	1.14	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.377	0.008	0.003	0	0	0	0	---	---	0.048	1978
1979	---	---	0	1.05	0.139	0.006	0	0	0	0	---	---	0.147	1979
1980	---	---	0	0.009	0.002	0	0	0	0	0	---	---	0.001	1980
1981	---	0.082	0.048	0	0	0	0	0	0	0	---	---	0.006	1981
1982	---	---	0	1.85	0.001	0.006	0	0	0	0	---	---	0.228	1982
1983	---	---	0.282	1.18	0.004	0	0	0	0	0	---	---	0.180	1983
1984	---	---	0.072	0.003	0.072	0.012	0	0	0	0	---	---	0.020	1984
1985	---	---	2.78	0.387	0.005	0.202	0.086	0	0	0.004	---	---	0.434	1985
1986	---	---	0.448	0.128	0.122	0.001	0	0	0	0	---	---	0.088	1986
MEAN	---	0.082	0.239	1.21	0.174	0.084	0.038	0.014	0.017	0.012	---	---	0.215	MEAN

LOCATION - LAT 49 19 30 N DRAINAGE AREA 435 km²
LONG 100 42 10 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.510 AND 0 m³/s OCCURRED IN FEB

MEDORA CREEK NEAR NAPINKA - STATION NO 05NG020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1965	---	1.70 E ON MAR 15	0E ON MAR 1 *	1 790	1965
1967	---	0.997 ON APR 6	0B ON MAR 1	840	1967
1968	---	0.898 ON AUG 26	0B ON MAR 1	1 140	1968
1969	---	15.3 ON APR 10	0B ON MAR 1	9 590	1969
1970	---	3.98 ON APR 8	0B ON MAR 1	4 980	1970
1971	---	1.43 ON JUN 23	0B ON MAR 1	2 480	1971
1972	---	4.30 ON MAR 21	0B ON MAR 1	3 980	1972
1973	---	0.0858 ON MAR 22	0B ON MAR 1	101	1973
1974	---	8.75 B ON APR 18	0B ON MAR 1	9 790	1974
1975	---	12.7 ON APR 14	0B ON MAR 1	13 900	1975
1976	---	40.2 B ON APR 4 *	0B ON MAR 1	24 200	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	2.82 B ON APR 6	0B ON MAR 1	1 010	1978
1979	---	12.3 ON APR 21	0B ON MAR 1	3 120	1979
1980	0.055 AT 06 16 CST ON APR 8	0.053 ON APR 18	0B ON MAR 1	28.4	1980
1981	---	0.2328 ON MAR 1	0 ON MAR 25	129	1981
1982	14.2 AT 11 01 CST ON APR 14 *	11.5 ON APR 14	0B ON MAR 1	4 820	1982
1983	7.77 B AT 13 09 CST ON APR 2	5.52 B ON APR 4	0B ON MAR 1	3 810	1983
1984	1.33 AT 13 02 CST ON MAY 5	0.5858 ON MAR 25	0B ON MAR 1	424	1984
1985	12.0 B AT 09 41 CST ON MAR 18	10.5 B ON MAR 22	0B ON MAR 1	9 180	1985
1986	2.53 B AT 12 14 CST ON MAR 18	2.14 B ON MAR 18	0B ON MAR 1	1 860	1986
				4 630	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

METCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO 05UB010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	822	949	934	---	---	1 260	---	---	1 030	---	---	---	---	1971
1972	725	714	754	883	1 170	1 250	1 180	1 110	1 010	942	844	887	940	1972
1973	814	630	820	726	888	1 250	1 400	1 380	1 240	1 110	---	---	---	1973
MEAN	720	764	769	805	1 030	1 250	1 290	1 250	1 090	1 030	844	887	940	MEAN

LOCATION - LAT 54 23 10 N
LONG 98 08 00 W NATURAL FLOW

METCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO 05UB010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1971	1 300 AT 17 16 CST ON MAY 28	1 300 ON JUN 12	---	---	1971
1972	1 310 AT 12 31 CST ON MAY 30	1 290 ON MAY 21	8268 ON DEC 31 *	29 700 000	1972
1973	1 470 AT 17 01 CST ON JUL 11 *	1 450 ON JUL 12 *	---	---	1973
				29 700 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINK CREEK NEAR ETHELBERT - STATION NO 05LJ019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	1.86	3.10	0.895	0.101	1.19	0.552	0.474	---	---	1954
1955	---	---	---	3.80	1.27	0.721	0.048	0	0.020	0.040	---	---	---	1955
1956	---	---	0.044	1.50	1.88	0.418	0.278	0.041	0.130	0.118	---	---	0.563	1956
1957	---	---	0.076	2.02	0.532	0.184	0.049	0.080	0.081	0.071	---	---	0.377	1957
1958	---	---	0.079	0.585	0.167	0.095	0.081	0.036	0.095	0.072	---	---	0.150	1958
1959	---	---	0.206	0.849	0.378	0.561	0.185	0.042	0.088	0.156	---	---	0.279	1959
1960	---	---	0	2.82	1.07	0.438	0.057	0.029	0.028	0.079	---	---	0.533	1960
1961	---	---	0.005	0.073	0.147	0.051	0.014	0	0.100	0.088	---	---	0.061	1961
1962	---	---	0.011	0.267	0.092	0.072	0.042	0.032	0.038	0.043	---	---	0.074	1962
1963	---	---	0.132	0.539	0.345	0.317	0.153	0.021	0.028	0.044	---	---	0.196	1963
1964	---	---	0.025	0.583	0.363	0.038	0.011	0.021	0.024	0.056	---	---	0.139	1964
1965	---	---	0	0.669	0.520	0.238	0.238	0.301	0.387	0.207	---	---	0.316	1965
1966	---	---	0.367	2.09	0.759	0.454	0.205	0.082	0.030	0.043	---	---	0.497	1966
1967	---	---	0	0.591	1.22	0.120	0.022	0.019	0.004	0.033	---	---	0.251	1967
1968	---	---	0.145	0.356	0.118	0.080	0.027	0.037	0.031	0.042	---	---	0.100	1968
1969	---	---	0.009	0.631	0.236	0.188	0.485	0.105	0.029	0.147	---	---	0.225	1969
1970	---	---	0.028	1.32	1.77	0.618	0.488	0.087	0.045	0.124	---	---	0.557	1970
1971	---	---	0.065	1.51	0.250	0.500	0.090	0.025	0.028	0.093	---	---	0.315	1971
1972	---	---	0.041	1.38	0.525	0.058	0.027	0.018	0.011	0.035	---	---	0.273	1972
1973	---	---	0.093	0.153	0.139	0.251	0.052	0.014	0.096	0.118	---	---	0.114	1973
1974	---	---	0	2.45	2.81	0.451	0.017	0.015	0.057	0.079	---	---	0.733	1974
1975	---	---	0	1.58	1.04	1.08	0.034	0.062	0.429	0.258	---	---	0.552	1975
1976	---	---	0.004	2.38	0.306	4.37	0.109	0.016	0.011	0.025	---	---	0.885	1976
1977	---	---	0.017	0.178	0.239	0.074	0.112	0.046	0.302	0.192	---	---	0.145	1977
1978	---	---	0.032	0.677	0.253	0.129	0.016	0.018	0.048	0.067	---	---	0.153	1978
1979	---	---	0.029	2.29	1.84	0.366	0.006	0.001	0.024	0.052	---	---	0.570	1979
1980	---	---	0.024	0.545	0.051	0.023	0.016	0.046	0.048	0.055	---	---	0.100	1980
1981	---	---	0.075	0.174	0.123	0.142	0.134	0.019	0.033	0.089	---	---	0.096	1981
1982	---	---	0.029	0.517	0.135	0.055	0.107	0.035	0.018	0.108	---	---	0.125	1982
1983	---	---	0	1.49	0.976	0.805	0.294	0.010	0.006	0.062	---	---	0.451	1983
1984	---	---	0.141	0.281	0.700	1.32	0.026	0	0.015	0.181	---	---	0.328	1984
1985	---	---	0.093	2.00	0.143	0.371	0.074	0.478	0.176	0.136	---	---	0.428	1985
1986	---	---	0.824	2.00	2.85	0.121	0.207	0.113	0.089	0.132	---	---	0.806	1986
MEAN	---	---	0.087	1.18	0.770	0.538	0.138	0.058	0.112	0.108	0.474	---	0.335	MEAN

LOCATION - LAT 51 25 00 N DRAINAGE AREA 144 km²
LONG 100 21 10 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINK RIVER" PRIOR TO 1979

MINK CREEK NEAR ETHELBERT - STATION NO 05LJ019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	---	---	---	1954
1955	---	17.8 ON APR 5	0 ON JUN 29 *	---	1955
1956	---	7.62 B ON APR 30	0 B ON MAR 1	11 900	1956
1957	---	8.61 ON APR 25	0 ON JUL 29	7 980	1957
1958	---	1.10 ON APR 14	0 B ON MAR 1	3 190	1958
1959	2.01 AT 17 00 CST ON JUN 29	1.95 ON JUN 29	0 B ON MAR 1	5 900	1959
1960	13.5 B AT 00 00 CST ON APR 13	11.8 B ON APR 12	0 B ON MAR 1	11 300	1960
1961	---	0.2484 ON SEP 5	0 B ON MAR 1	1 290	1961
1962	---	1.33 B ON APR 18	0 B ON MAR 1	1 570	1962
1963	---	1.42 ON APR 10	0 B ON MAR 1	4 160	1963
1964	---	1.45 B ON APR 24	0 A ON JUL 19	2 940	1964
1965	---	1.78 B ON APR 13	0 B ON MAR 1	6 700	1965
1966	---	12.5 B ON APR 2	0.023 ON SEP 8	10 500	1966
1967	---	3.77 B ON APR 28	0 B ON MAR 1	5 310	1967
1968	---	0.8508 ON MAR 29	0.011 ON AUG 14	2 120	1968
1969	---	3.31 B ON APR 15	0.0088 ON MAR 1	4 780	1969
1970	5.72 B AT 00 00 CST ON APR 26	4.45 B ON APR 26	0.012 ON AUG 26	11 800	1970
1971	8.67 B AT 01 24 CST ON APR 11	6.60 B ON APR 11	0 ON SEP 1	6 680	1971
1972	---	5.13 B ON APR 18	0 ON AUG 26	5 770	1972
1973	2.51 AT 14 12 CST ON AUG 10	0.796 ON JUN 21	0 ON AUG 26	2 410	1973
1974	---	15.7 B ON APR 19	0 B ON MAR 1	15 500	1974
1975	---	5.95 B ON APR 20	0 B ON MAR 1	11 700	1975
1976	44.2 AT 23 19 CST ON JUN 13 *	32.3 ON JUN 14 *	0.0038 ON MAR 1	18 700	1976
1977	0.958 AT 18 56 CST ON SEP 27	0.932 ON SEP 27	0.013 ON AUG 20	3 060	1977
1978	---	1.41 ON APR 21	0 ON JUL 10	3 240	1978
1979	17.3 AT 00 00 CST ON APR 24	13.9 B ON APR 23	0 ON JUL 9	12 100	1979
1980	3.30 AT 11 13 CST ON OCT 28	1.57 B ON APR 8	0 ON JUN 17	2 110	1980
1981	0.991 AT 09 25 CST ON JUL 2	0.768 ON JUL 3	0 ON AUG 16	2 030	1981
1982	---	1.72 B ON APR 18	0 B ON MAR 1	2 640	1982
1983	---	8.31 B ON APR 24	0 B ON MAR 1	9 540	1983
1984	7.86 AT 20 12 CST ON JUN 24	7.27 ON JUN 24	0 B ON MAR 1	6 950	1984
1985	---	5.83 B ON APR 2	0 B ON MAR 1	9 070	1985
1986	10.6 AT 16 23 CST ON MAY 7	9.95 ON MAY 7	0 B ON MAR 1	17 100	1986
				7 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINK CREEK NEAR SIFTON - STATION NO 05LJ048

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1 08	0 021	0	0	0 001	0	0	---	---	0 135	1980
1981	---	---	0 052	0 042	0 024	0 548	0 217	0 004	0 001	0 002	---	---	0 110	1981
1982	---	---	0 074	0 612	0 104	0 010	0 052	0 008	0 001	0 050	---	---	0 137	1982
MEAN	---	---	0 042	0 845	0 050	0 186	0 090	0 004	0 001	0 017	---	---	0 127	MEAN

LOCATION - LAT 51 25 55 N LONG 100 01 00 W
DRAINAGE AREA 265 km²
NATURAL FLOW

MINK CREEK NEAR SIFTON - STATION NO 05LJ048

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	4 10A ON APR 10 *	0B ON MAR 1 *	2 850	1980
1981	4 51 AT 07 30 CST ON JUN 24 *	3 94 ON JUN 24	0 ON SEP 9	2 330	1981
1982	---	2 68B ON APR 15	0B ON MAR 1	2 910	1982
				2 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINNEWASTA CREEK NEAR BEULAH - STATION NO 05ME008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0 020	0 146	0	0	---	---	---	---	---	---	0 041	1978
1979	---	---	0	0 981	1 15	0 234	---	---	---	---	---	---	0 592	1979
1980	---	---	0	0 084	0	0	---	---	---	---	---	---	0 021	1980
1981	---	0 007	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0 017	0 387	0	0	---	---	---	---	---	---	0 100	1982
1983	---	---	0	0 851	0 290	0 026	---	---	---	---	---	---	0 240	1983
1984	---	---	0	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	0 022	0 578	0 002	0	---	---	---	---	---	---	0 148	1985
1986	---	---	0 578	2 11	0 685	0 068	---	---	---	---	---	---	0 857	1986
MEAN	---	0 007	0 084	0 484	0 213	0 033	0	0	0	0	---	---	0 200	MEAN

LOCATION LAT 50 16 08 N LONG 101 01 14 W
DRAINAGE AREA 382 km²
NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0 025 AND 0 m³/s OCCURRED IN FEBRUARY

MINNEWASTA CREEK NEAR BEULAH - STATION NO 05ME008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	---	0 B ON MAR 1	0B ON MAR 1 *	0	1977
1978	0 7028 AT 17 34 CST ON APR 10	0 4878 ON APR 10	0B ON MAR 1	431	1978
1979	6 26 AT 07 35 CST ON APR 22	5 64 ON APR 22 *	0B ON MAR 1	6 240	1979
1980	0 4378 AT 23 45 CST ON APR 9	0 3528 ON APR 9	0B ON MAR 1	216	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	---	1 29 ON APR 15	0B ON MAR 1	1 050	1982
1983	2 84 AT 01 00 CST ON APR 21	2 76 ON APR 22	0B ON MAR 1	2 540	1983
1984	---	0 001A ON MAR 26	0B ON MAR 1	0 09	1984
1985	2 85 AT 23 15 CST ON APR 2	1 39 ON APR 3	0B ON MAR 1	1 580	1985
1986	8 34 B AT 08 47 CST ON APR 1 *	5 50 B ON APR 1	0B ON MAR 1	9 030	1986
				2 110	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOOSE RIVER NEAR MOOSE LAKE - STATION NO 05KK007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	-10 1	-40 2	-5 84	22 0	32 8	44 9	---	1971
1972	44 5	52 7	54 7	53 6	-8 39	-1 86	-45 2	-44 7	-7 22	23 0	36 8	---	---	1972
1973	50 2	57 3	58 3	59 0	12 4	-41 4	-38 8	4 04	-15 0	-29 8	17 4	37 3	14 0	1973
MEAN	47 4	55 0	56 5	56 3	2 01	-21 8	-31 4	-27 0	-9 35	5 13	28 0	41 1	14 0	MEAN

LOCATION - LAT 53 38 00 N LONG 100 19 00 W
DRAINAGE AREA 9 170 km²
REGULATED SINCE 1964

MOOSE RIVER NEAR MOOSE LAKE - STATION NO 05KK007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	63.7 ON APR 5 *	-85.5A ON JUL 2 *	443 000	1973
				443 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MORRIS RIVER AT ROSENORT - STATION NO 05OF002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	---	3.96	---	---	---	---	---	---	---	---	1922
1923	---	---	---	---	8.15	---	---	---	---	---	---	---	---	1923
1925	---	---	---	---	1.26	---	---	---	---	---	---	---	---	1925
1963	---	---	0.005	3.24	* 98	13.1	1.61	0.588	0	0	---	---	2.53	1963
1964	---	---	0	8.36	1.05	1.44	0.213	0.155	2.08	0	---	---	1.63	1964
1965	---	---	0	33.3	3.63	1.47	0	0	0	0	---	---	4.71	1965
1966	---	---	0.611	3.08	1.94	0.519	2.01	10.7	4.53	0.827	---	---	2.98	1966
MEAN	---	---	0.104	12.0	3.14	4.13	0.958	2.88	1.66	0.187	---	---	2.96	MEAN

LOCATION - LAT 49 27 30 N LONG 97 26 15 W DRAINAGE AREA 2 240 km^2 NATURAL FLOW

MORRIS RIVER AT ROSENORT - STATION NO 05OF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1925	---	---	---	---	1925
1963	---	56.9 ON JUN 7	0.8 ON MAR 1 *	53 500	1963
1964	---	41.9E ON APR 16	0.8 ON MAR 1	34 600	1964
1965	---	122 ON APR 16 *	0.8 ON MAR 1	99 800	1965
1966	---	50.1E ON AUG 28	0.8 ON MAR 1	63 100	1966
				62 800	MEAN

E - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MORRIS RIVER NEAR ROSENORT - STATION NO 05OF020

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	32.0	8.12	2.95	12.8	1.63	0.480	0.107	---	---	7.20	1969
1970	---	---	0	40.7	39.5	2.39	---	---	---	---	---	---	---	1970
1971	---	---	0	25.9	2.35	1.64	1.26	0.473	0.312	0.945	---	---	4.05	1971
1972	---	---	3.16	21.6	2.37	0.387	0.043	0.085	0.048	0.239	---	---	3.44	1972
1973	---	---	1.88	1.21	0.634	1.11	0.214	0.159	0.034	0.059	---	---	0.663	1973
1974	---	---	0.051	57.9	39.5	2.64	0.340	0.040	0.050	0.080	---	---	12.5	1974
1975	---	---	0.133	6.15	3.54	2.81	1.81	0.233	0.238	0.213	---	---	1.88	1975
1976	---	---	0.054	23.4	1.23	0.685	0.017	0.001	0.001	0.013	---	---	3.12	1976
1977	---	---	0.002	1.41	1.55	0.142	0.184	0.020	0.493	0.430	---	---	0.529	1977
1978	---	---	0.048	23.5	2.27	1.18	2.52	1.07	0.416	0.189	---	---	3.97	1978
1979	---	---	0	---	---	3.19	0.559	0.115	0.353	0.091	---	---	---	1979
1980	---	---	0.003	5.41	0.387	0.017	0.001	0	0.022	0.042	---	---	0.842	1980
1981	---	---	1.46	0.646	0.280	0.336	0.504	0.324	0.810	0.184	---	---	0.563	1981
1982	---	---	0.233	4.80	0.609	0.304	0.054	0.008	0	0.025	---	---	0.743	1982
1983	---	---	0.924	21.3	0.980	0.626	0.303	0.049	0.002	0.070	---	---	2.98	1983
1984	---	---	0.339	0.682	0.273	1.06	0.003	0.007	0	0.077	---	---	0.300	1984
1985	---	---	10.9	9.96	0.481	0.277	0.033	3.23	0.416	0.480	---	---	3.21	1985
1986	---	---	10.3	28.3	15.7	0.540	1.66	0.485	0.109	0.139	---	---	7.11	1986
MEAN	---	---	1.84	18.0	7.11	1.24	1.31	0.485	0.221	0.196	---	---	3.32	MEAN

LOCATION - LAT 49 29 22 N LONG 97 28 51 W DRAINAGE AREA 2 210 km^2 NATURAL FLOW

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	100 ON APR 15	0 B ON MAR 1 *	152 000	1969
1970	---	134 ON MAY 1	0 B ON MAR 1	---	1970
1971	---	92.6 ON APR 12	0 B ON MAR 1	85 700	1971
1972	73.3 AT 08 10 CST ON APR 17	71.8 ON APR 17	0 B ON MAR 1	72 800	1972
1973	---	8.24 ON JUN 21	0 B ON MAR 1	14 000	1973
1974	170 AT 22 07 CST ON APR 23 *	167 ON APR 24 *	0.001 ON AUG 20	264 000	1974
1975	25.6 AT 22 01 CST ON APR 29	22.6 ON APR 30	0.001 ON AUG 2	39 700	1975
1976	82.1 AT 08 24 CST ON APR 10	81.0 ON APR 10	0 ON JUL 10	85 000	1976
1977	---	7.798 ON APR 10	0 B ON MAR 1	11 200	1977
1978	51.88 AT 01 08 CST ON APR 14	49.8 B ON APR 13	0 B ON MAR 1	84 100	1978
1979	---	---	0 B ON MAR 1	---	1979
1980	16.38 AT 19 57 CST ON APR 10	15.5 B ON APR 10	0 B ON MAR 1	17 800	1980
1981	---	3.708 ON MAR 28	0 A ON SEP 2	11 900	1981
1982	16.4 AT 21 20 CST ON APR 15	15.8 ON APR 15	0 B ON MAR 1	15 700	1982
1983	61.88 AT 09 06 CST ON APR 7	51.1 B ON APR 7	0 ON AUG 17	63 000	1983
1984	---	7.42E ON JUN 23	0 B ON MAR 1	6 340	1984
1985	45.0 AT 21 22 CST ON MAR 25	43.2 B ON MAR 26	0 B ON MAR 1	68 000	1985
1986	113 AT 06 26 CST ON APR 1	112 ON APR 1	0 B ON MAR 1	151 000	1986
				70 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	84.3	61.5	59.2	50.4	40.9	31.4	26.0	---	---	1948
1949	---	---	---	16.5	15.8	12.2	6.44	2.74	1.33	1.18	1.11	---	7.15	1949
1950	---	---	---	12.5	11.8	28.7	30.3	25.0	18.9	19.8	17.9	---	20.6	1950
1951	---	---	---	17.7	27.1	20.5	8.78	4.84	4.14	4.89	4.57	---	11.5	1951
1952	---	---	---	26.5	25.3	11.6	5.20	2.57	2.06	1.70	1.30	---	9.54	1952
1953	---	---	6.35	18.9	28.2	69.6	88.2	54.1	41.8	34.5	31.1	---	43.3	1953
1954	---	---	15.4	21.1	29.5	54.8	53.4	35.5	33.5	34.6	29.2	---	36.5	1954
1955	---	---	24.2	38.0	49.6	52.2	48.5	35.3	27.2	21.0	---	---	---	1955
1956	---	---	12.4	16.9	39.5	39.0	48.8	38.0	30.4	24.1	---	---	---	1956
MEAN	---	---	14.6	21.0	32.3	38.9	36.5	27.6	22.2	19.2	15.9	---	21.4	MEAN

LOCATION - LAT 51 30 13 N, LONG 99 59 45 W
DRAINAGE AREA 8 030 km^2
REGULATED

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	89.88 ON APR 26	---	---	1948
1949	---	22.4 ON APR 4	0.283 ON OCT 30 *	151 000	1949
1950	---	50.4 ON OCT 23	4.50 ON MAY 8	435 000	1950
1951	---	36.2 ON MAY 1	2.55 ON SEP 13	243 000	1951
1952	---	31.18 ON APR 8	0.650 ON NOV 5	201 000	1952
1953	---	105 E ON JUN 5 *	12.5 ON APR 2	913 000	1953
1954	---	67.1 ON JUN 16	13.9 ON APR 10	768 000	1954
1955	---	61.7 ON JUN 24	---	---	1955
1956	---	51.5 ON JUL 15	---	---	1956
				452 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER AT LACY'S FARM BELOW FISHING RIVER - STATION NO. 05LJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	24.4	23.2	23.1	30.8	45.0	40.5	31.3	---	1912
1913	---	---	---	---	---	---	---	34.8	26.1	20.1	18.4	18.8	---	1913
1914	16.8	16.1	14.5	13.9	19.7	20.2	14.8	---	---	---	---	---	---	1914
MEAN	16.8	16.1	14.5	13.9	19.7	22.3	19.0	29.0	28.5	32.6	29.5	25.1	---	MEAN

LOCATION - LAT 51 27 40 N, LONG 99 59 20 W
DRAINAGE AREA 8 990 km^2
NATURAL FLOW

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO 05LJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	14.0	9.55	7.78	6.78	6.23	4.81	---	1914
1915	4.25	4.53	6.50	7.35	5.07	5.00	5.63	3.56	2.80	3.08	2.26	1.84	4.51	1915
1916	0.490	0.416	0.397	2.65	6.59	27.1	19.6	12.1	8.42	9.67	6.47	3.68	8.22	1916
1917	6.46	8.16	8.43	12.5	17.4	15.0	20.0	11.6	9.36	7.22	7.70	4.89	10.8	1917
1918	3.77	3.98	8.88	10.2	9.57	10.6	7.72	6.77	5.34	5.05	4.27	2.35	6.55	1918
1919	1.77	1.49	2.96	6.65	7.49	5.87	5.53	4.03	3.25	3.21	3.62	1.88	4.15	1919
1920	0.908	0.941	1.01	13.8 R	27.2 R	19.5	14.2	8.56	6.36	5.88	5.72	5.59	9.13P	1920
1921	5.55	6.71	7.02	12.3	18.6	33.1	18.8	18.9	22.7	19.3	22.5	16.2	15.8	1921
1922	14.2	12.2	10.3	39.0	50.5	36.3	30.5	28.0	22.5	17.6	17.5	19.5	24.9	1922
1923	18.2	18.0	19.7	---	---	---	---	---	---	---	---	---	---	1923
MEAN	6.18	6.27	7.47	13.3 R	17.6 R	19.1	15.1	11.5	9.95	8.60	8.53	6.99	10.6	MEAN

LOCATION - LAT 51 31 40 N DRAINAGE AREA, 9 500 km²
LONG 99 59 30 W NATURAL FLOW

R - REVISED SINCE JAN 1986

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO 05LJ002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1914	---	---	---	---	1914
1915	---	21.4 ON MAR 27	0.678 ON OCT 25	142 000	1915
1916	---	55.2 ON JUN 27	0.3688 ON FEB 24 *	260 000	1916
1917	---	34.3 ON JUN 30	2.29 ON OCT 11	339 000	1917
1918	---	25.8 ON MAR 28	1.78 B ON DEC 31	207 000	1918
1919	---	14.78 ON APR 5	1.06 B ON DEC 30	131 000	1919
1920	---	52.48 ON APR 25	0.8218 ON JAN 20	289 000R	1920
1921	---	85.0 ON JUN 20 *	2.01 B ON FEB 16	531 000	1921
1922	---	64.6 ON MAY 15	9.97 B ON MAR 23	786 000	1922
1923	---	21.08 ON MAR 31	14.2 B ON JAN 18	---	1923
				336 000R	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO 05LJ025

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	---	---	---	---	33.0	19.3	19.8	---	1956
1957	18.0	15.4	13.6	19.0	31.4	28.8	24.1	10.5	4.08	3.20	2.18	2.38	14.4	1957
1958	2.21	1.84	2.28	4.89	2.69	1.91	1.78	1.18	0.988	0.634	0.624	0.471	1.77	1958
1959	0.344	0.312	0.667	1.63	1.91	1.39	1.76	2.25	1.84	1.63	1.90	1.80	1.46	1959
1960	1.14	1.38	1.68	15.8	28.4	29.3	20.3	14.0	10.1	5.83	5.89	6.08	11.8	1960
1961	5.43	4.72	4.91	8.57	2.02	1.25	0.688	0.123	0.020	---	---	---	---	1961
1962	---	---	---	---	---	---	---	---	---	0.072	0.038	0.033	---	1962
1963	0.018	0	0.045	0.685	0.939	1.31	0.693	0.630	0.688	0.587	0.482	0.514	0.551	1963
1964	0.851	0.633	0.581	0.845	0.250	0.009	0.085	0.037	0.121	---	---	---	---	1964
1965	---	---	---	---	---	---	---	---	---	0.076	0.128	0.156	---	1965
1966	0.158	0.160	1.54	23.9	35.5	33.4	29.7	24.9	19.8	14.8	4.02	0.875	15.8	1966
1967	0.753	0.658	5.70	18.6	34.8	32.4	25.0	16.3	2.65	1.45	0.609	0.593	11.8	1967
1968	0.542	0.443	0.646	1.23	1.54	1.71	1.16	0.959	1.18	0.700	0.765	0.908	0.983	1968
1969	1.26	1.11	1.26	8.51	12.9	13.2	21.5	22.3	17.9	14.6	12.5	2.40	10.7	1969
1970	0.977	0.852	1.15	12.2	38.5	42.9	36.4	29.1	22.7	18.4	18.3	18.6	20.2	1970
1971	18.3	16.4	13.7	18.8	22.1	24.5	21.8	12.2	1.80	0.033	2.08	5.09	13.1	1971
1972	5.71	4.42	4.43	16.5	36.1	31.3	21.9	10.8	1.84	0.182	0.287	0.977	11.2	1972
1973	0.878	1.70	1.33	1.08	0.881	0.227	0.247	0.242	0.258	0.260	0.906	1.47	0.793	1973
1974	2.05	2.17	2.39	26.9	82.9	68.6	54.2	41.1	33.1	28.4	23.5	15.9	30.6	1974
1975	18.3	16.1	14.1	16.4	30.3	32.5	24.4	15.4	22.8	42.0	38.3	33.5	25.4	1975
1976	27.7	23.9	20.9	36.4	47.2	47.4	30.7	36.7	25.5	20.1	16.3	6.18	29.9	1976
1977	5.13	4.87	2.09	1.66	10.7	1.11	7.56	0.807	3.27	18.8	15.2	14.8	7.03	1977
1978	13.8	12.2	10.5	13.7	17.9	15.5	10.1	0.385	0.307	0.920	6.33	0.905	8.49	1978
1979	0.818	0.948	2.23	15.6	54.6	57.4	46.8	33.7	26.1	21.6	18.5	17.0	24.7	1979
1980	15.6	13.4	12.3	13.7	3.08	0.445	0.239	0.299	0.339	0.273	2.17	8.09	5.81	1980
1981	7.63	7.35	2.13	1.18	0.122	0.238	0.182	0.196	0.190	0.152	0.752	5.14	2.15	1981
1982	8.00	7.25	3.18	3.75	15.2	4.10	2.30	0.945	0.308	0.273	0.398	4.36	4.17	1982
1983	7.79	6.94	8.72	13.6	29.3	30.7	32.2	26.9	19.1	15.8	14.1	11.6	18.1	1983
1984	9.40	5.25	1.23	0.125	10.0	14.1	8.34	0.061	0.057	2.00	8.82	8.68	5.51	1984
1985	8.16	8.25	8.06	13.4	17.3	7.72	0.325	2.53	13.4	14.6	14.1	12.5	10.2	1985
1986	11.2	10.7	10.4	21.6	41.0	40.4	32.2	25.9	19.7	17.5	14.1	13.1	21.6	1986
MEAN	6.89	6.09	5.42	11.6	21.1	20.1	17.0	11.8	8.93	8.20	8.38	7.55	11.9	MEAN

LOCATION - LAT 51 27 00 N DRAINAGE AREA, 8 710 km²
LONG 99 58 00 W REGULATED

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO 05LJ025

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	---	---	---	1956
1957	37.1 AT 12:10 CST ON MAY 19	33.7 ON MAY 19	1.76 ON NOV 7	454 000	1957
1958	9.85 AT 12:40 CST ON APR 18	8.21 ON APR 18	0.3118 ON DEC 30	55 800	1958
1959	17.7 AT 15:50 CST ON AUG 1	4.13 ON MAY 9	0.2278 ON FEB 2	46 000	1959
1960	38.8 AT 07:30 CST ON JUN 17	34.5 ON JUN 7	0.9918 ON JAN 14	372 000	1960
1961	---	7.56 A ON JAN 8	---	---	1961
1962	---	---	---	---	1962
1963	3.96 AT 06:10 CST ON JUN 22	2.30 ON JUN 21	0 B ON JAN 15 *	17 400	1963
1964	---	0.6978 ON JAN 21	0 E ON JUN 21	---	1964
1965	---	---	---	---	1965
1966	39.6 AT 03:20 CST ON MAY 21	37.7 ON MAY 21	0.1588 ON JAN 10	498 000	1966
1967	39.6 AT 23:00 CST ON MAY 21	37.9 ON MAY 21	0.122 ON OCT 24	371 000	1967
1968	---	3.82 ON MAY 6	0.133 ON MAY 15	31 100	1968
1969	---	27.3 ON AUG 5	0.3348 ON MAR 26	337 000	1969
1970	---	49.0 ON MAY 26	0.5018 ON MAR 11	836 000	1970
1971	---	29.7 ON JUN 14	0.012 ON OCT 25	411 000	1971
1972	---	41.6 ON JUN 1	0.127 ON OCT 17	355 000	1972
1973	---	2.80 B ON FEB 17	0.085 ON OCT 7	25 000	1973
1974	---	78.6 ON MAY 27 *	1.28 B ON JAN 1	985 000	1974
1975	---	48.7 ON OCT 5	3.17 ON AUG 25	801 000	1975
1976	---	61.4 ON JUN 23	3.77 ON DEC 18	946 000	1976
1977	---	22.5 ON OCT 22	0.218 ON AUG 10	221 000	1977
1978	---	26.3 ON JUN 9	0.113 ON JUL 28	268 000	1978
1979	89.2 AT 15:11 CST ON JUN 5 *	64.7 ON JUN 5	0.8578 ON JAN 10	780 000	1979
1980	17.8 AT 08:31 CST ON JAN 12	17.5 ON JAN 12	0.139 ON JUN 25	184 000	1980
1981	11.2 AT 21:55 CST ON DEC 17	10.8 ON DEC 18	0.042E ON OCT 17	68 100	1981
1982	20.4 AT 13:15 CST ON MAY 23	17.8 ON MAY 23	0.015E ON OCT 21	131 000	1982
1983	38.2 AT 06:46 CST ON JUL 9	34.8 ON JUL 14	6.58 B ON FEB 27	572 000	1983
1984	23.1 AT 23:58 CST ON JUN 24	18.8 ON MAY 15	0.003 ON AUG 30	174 000	1984
1985	26.5 AT 20:04 CST ON OCT 16	21.3 ON MAY 3	0.073 ON AUG 18	321 000	1985
1986	54.6 AT 12:00 CST ON MAY 21	51.2 ON MAY 21	3.64 B ON NOV 8	880 000	1986
				374 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOWBRAY CREEK NEAR MOWBRAY - STATION NO 05OB021

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	1.76	0.072	0.083	0.003	0	0	0	---	---	---	1962
1963	---	---	0.010	0.030	0.002	0.108	0.040	0.009	0.001	0	---	---	---	1963
1964	---	---	0	0.289	0.025	0.015	0.008	0	0	0	---	---	---	1964
1965	---	---	0	1.41	0.332	0.053	0.001	0	0	0	---	---	---	1965
1966	---	---	1.41	2.55	1.33	0.148	0.057	0.038	0.010	0	---	---	---	1966
1967	---	---	0.052	2.93	1.70	0.067	0.002	0	0	0	---	---	---	1967
1968	---	---	0.071	0.176	0.001	0	0	0	0	0	---	---	---	1968
1969	---	---	0	3.86	0.182	0.369	0.150	0.034	0	0	---	---	---	1969
1970	---	---	0	3.25	0.905	0.784	0.505	0.044	0.008	0.008	---	---	---	1970
1971	---	---	0	5.84	0.363	0.092	0.033	0	0	0	---	---	---	1971
1972	---	---	0.818	1.14	0.140	0.018	0	0	0	0	---	---	---	1972
1973	---	---	0.300	0.030	0	0	0	0	0	0	---	---	---	1973
1974	---	---	0	5.88	4.51	0.454	0.025	0	0	0	---	---	---	1974
1975	---	---	0	0.527	0.293	0.005	0.002	0	0	0	---	---	---	1975
1976	---	---	0	3.42	0.061	0.024	0.009	0.004	0	0	---	---	---	1976
1977	---	---	0.001	0.078	0.002	0	0	0	0.101	0	---	---	---	1977
1978	---	---	0.005	3.03	0.204	0.031	0.029	0.002	0	0	---	---	---	1978
1979	---	---	0	5.04	2.28	0.024	0.250	0.113	0.226	0.125	---	---	---	1979
1980	---	---	0.004	0.419	0.222	0.088	0.032	0.047	0.058	0.145	---	---	---	1980
1981	---	0.181	0.385	0.118	0.059	0.031	0.012	0.026	0.006	0.009	---	---	---	1981
1982	---	---	0.032	0.848	0.186	0.142	0.112	0.004	0	0.072	---	---	---	1982
1983	---	---	0.502	1.02	0.084	0.027	0.011	0.005	0	0	---	---	---	1983
1984	---	---	0.134	0.107	0.047	0.265	0.001	0	0	0	---	---	---	1984
1985	---	---	1.76	0.522	0.024	0.212	0.428	0.252	0.090	0.079	---	---	---	1985
1986	0	0	1.43	1.05	0.336	0.908	0.142	0.084	0.003	0.001	0	0	0.334	1986
MEAN	0	0.081	0.276	1.81	0.534	0.158	0.078	0.028	0.020	0.018	0	0	0.334	MEAN

LOCATION - LAT 49 00 00 N, LONG 98 27 15 W
DRAINAGE AREA 261 km^2
NATURAL FLOW
INTERNATIONAL GAUGING STATION

MOWBRAY CREEK NEAR MOWBRAY - STATION NO 05OB021

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	19.0 AT 12 13 CST ON APR 21	---	---	---	1974
1975	---	---	---	---	1975
1976	12.9 AT 11 13 CST ON APR 7	---	---	---	1976
1977	0.824 AT 13 00 CST ON SEP 8	---	---	---	1977
1978	---	---	---	---	1978
1979	22.0 AT 00 00 CST ON APR 25 *	---	---	---	1979
1980	8.77 AT 00 26 CST ON MAY 29	---	---	---	1980
1981	3.57 AT 20 22 CST ON MAY 22	---	---	---	1981
1982	9.90 B AT 16 28 CST ON APR 14	---	---	---	1982
1983	---	---	---	---	1983
1984	1.92 AT 20 58 CST ON JUN 10	---	---	---	1984
1985	13.7 B AT 00 13 CST ON MAR 22	---	---	---	1985
1986	---	11.08 ON MAR 28 *	0B ON JAN 1 *	10 500	1986
				10 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NEEPAWA CREEK NEAR NEEPAWA - STATION NO 05LL009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.782	0.306	0.081	0.024	0	0	0.003	0.060	---	---	0.155	1959
1960	---	---	0	5.31	0.857	0.214	0.014	0	0	0.028	---	---	0.765	1960
1961	---	---	0.010	0.283	0.159	0.009	0	0	0		---	---	0.057	1961
1962	---	---	0	1.99	0.159	0.037	0.137	0.141	0.054	0.061	---	---	0.318	1962
1963	---	---	1.17	0.993	0.180	0.890	0.638	0.010	0.009	0.008	---	---	0.486	1963
1964	---	---	0	0.951	0.304	0.035	0.011	0.003	0.007	0.025	---	---	0.165	1964
1965	---	---	0	4.31	0.599	0.329	0.803	0.294	0.535	0.130	---	---	0.864	1965
1966	---	---	0.334	1.94	0.687	0.241	0.108	0.026	0.001	0.026	---	---	0.417	1966
1967	---	---	0.014	3.86	0.424	0.057	0.010	0	0	0.011	---	---	0.537	1967
1968	---	---	0.857	0.405	0.125	0.044	0.038	0.038	0.045	0.043	---	---	0.200	1968
1969	---	---	0.017	5.31	0.379	0.498	1.70	0.188	0.049	0.082	---	---	1.02	1969
1970	---	---	0.025	4.92	4.30	0.231	0.348	0.219	0.032	0.078	---	---	1.26	1970
1971	---	---	0	1.92	0.258	2.62	0.806	0.043	0.031	0.160	---	---	0.733	1971
1972	---	---	0.101	3.51	0.680	0.077	0.033	0.015	0.017	0.049	---	---	0.552	1972
1973	---	---	0.233	0.150	0.116	0.042	0.008	0.006	0.173	0.068	---	---	0.099	1973
1974	---	---	0.054	3.95	2.38	0.178	0.015	0.002	0.018	0.032	---	---	0.821	1974
1975	---	---	0.028	2.77	0.804	0.211	0.050	1.06	1.18	0.229	---	---	0.785	1975
1976	---	---	0.083	4.58	0.248	0.283	0.053	0.012	0.008	0.039	---	---	0.652	1976
1977	---	---	0.032	0.175	0.105	0.062	0.091	0.059	0.117	0.075	---	---	0.089	1977
1978	---	---	0.020	1.62	0.581	0.111	0.011	0.005	0.036	0.045	---	---	0.300	1978
1979	---	---	0.015	5.28	3.22	0.269	0.027	0.004	0.017	0.041	---	---	1.10	1979
1980	---	---	0	0.620	0.051	0.012	0.007	0.166	0.160	0.177	---	---	0.148	1980
1981	---	0.307	0.672	0.457	0.092	0.091	0.003	0.048	0.065	0.089	---	---	0.189	1981
1982	---	---	0.118	1.98	0.135	0.086	0.073	0.016	0.019	0.075	---	---	0.306	1982
1983	---	---	0.014	3.47	0.402	0.181	0.189	0	0.005	0.150	---	---	0.544	1983
1984	---	---	0.203	0.324	0.176	0.082	0.006	0	0.001	0.058	---	---	0.106	1984
1985	---	---	0.108	1.10	0.125	0.095	0.027	0.150	0.096	0.094	---	---	0.222	1985
1986	---	---	1.38	1.70	1.72	0.179	0.433	0.041	0.041	0.035	---	---	0.590	1986
MEAN	---	0.307	0.223	2.29	0.884	0.256	0.205	0.091	0.098	0.070	---	---	0.485	MEAN

LOCATION - LAT 50 13 58 N DRAINAGE AREA 160 km^2
LONG 99 34 00 W NATURAL FLOW

NEEPAWA CREEK NEAR NEEPAWA - STATION NO. OSLL005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	8.12 B ON MAR 28	0 B ON MAR 1 *	3 280	1959
1960	---	16.5 ON APR 18	0 B ON MAR 1	15 200	1960
1961	---	0.983 ON APR 21	0 B ON MAR 1	1 210	1961
1962	---	12.5 ON APR 21	0 B ON MAR 1	6 740	1962
1963	---	8.38 ON MAR 29	0 B ON MAR 1	10 300	1963
1964	---	2.15 ON APR 14	0 B ON MAR 1	3 490	1964
1965	---	20.6 ON APR 13	0 B ON MAR 1	18 300	1965
1966	---	10.9 ON APR 2	0 B ON MAR 1	8 830	1966
1967	---	22.9 ON APR 15	0 ON JUL 13	11 400	1967
1968	---	5.10 B ON MAR 28	0 ON JUL 16	4 230	1968
1969	---	34.0 ON APR 13	0.009 ON JUN 23	21 500	1969
1970	---	25.0 ON APR 28	0 ON AUG 13	26 800	1970
1971	---	7.82 ON JUN 10	0 B ON MAR 1	15 500	1971
1972	---	11.0 B ON APR 17	0 B ON MAR 1	11 700	1972
1973	---	2.92 ON SEP 4	0 ON JUL 19	2 100	1973
1974	---	14.6 ON APR 21	0 ON JUL 25	17 300	1974
1975	---	18.9 ON APR 29	0.023E ON JUL 28	16 600	1975
1976	13.7 AT 03 21 CST ON APR 10	12.7 ON APR 9	0 ON JUL 27	13 800	1976
1977	---	0.416 ON SEP 25	0 B ON MAR 1	1 890	1977
1978	10.5 AT 11 29 CST ON MAY 25	4.84 B ON APR 18	0 ON AUG 9	6 350	1978
1979	48.1 AT 18 30 CST ON APR 21 *	35.0 ON APR 21 *	0 ON AUG 19	23 300	1979
1980	5.04 AT 17 39 CST ON APR 4	2.22 B ON APR 4	0 B ON MAR 1	3 130	1980
1981	3.17 AT 03 08 CST ON AUG 31	1.22 ON AUG 31	0 ON JUL 6	4 010	1981
1982	8.428 AT 21 35 CST ON APR 15	7.78 B ON APR 15	0 B ON MAR 1	5 470	1982
1983	---	16.9 B ON APR 21	0 B ON APR 6	11 500	1983
1984	2.75 AT 17 42 CST ON MAY 5	1.13 B ON MAR 28	0 B ON MAR 9	2 240	1984
1985	3.258 AT 12 26 CST ON APR 13	2.25 B ON APR 13	0 B ON MAR 1	4 890	1985
1986	12.4 B AT 00 04 CST ON MAR 30	10.5 B ON MAR 30	0.004 ON SEP 9	14 800	1986
				10 380	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	381	307	177	---	1967
1968	174	175	185	220	330	380	385	383	408	383	394	280	305	1968
1969	281	300	312	422	596	597	592	577	575	580	527	412	481	1969
1970	398	398	393	481	676	720	761	882	554	483	457	367	531	1970
1971	385	372	371	469	658	659	578	525	448	400	293	305	455	1971
1972	319	316	320	496	673	646	583	487	402	348	297	202	423	1972
1973	197	232	275	385	387	388	456	436	386	356	231	187	321	1973
1974	---	177	294	474	699	879	883	814	708	---	---	---	---	1974
1975	362	401	392	445	675	702	718	711	654	531	404	274	523	1975
1976	246	241	250	362	420	426	424	451	358	218	92.4	85.7	298	1976
1977	84.1	83.8	84.4	115	183	---	180	178	185	226	165	125	---	1977
1978	118	121	129	171	449	603	551	544	541	495	387	236	355	1978
1979	177	182	222	282	440	587	589	549	532	447	282	207	375	1979
1980	213	214	218	324	472	477	508	488	478	400	304	208	359	1980
1981	176	173	186	240	315	349	424	430	386	330	211	151	282	1981
1982	133	126	123	171	385	483	552	583	463	375	249	212	326	1982
1983	197	191	185	208	441	514	558	547	473	420	323	210	357	1983
1984	204	198	193	280	393	447	482	482	342	313	181	147	304	1984
1985	145	153	167	194	329	396	490	529	557	554	502	409	370	1985
1986	338	284	259	434	530	513	543	535	443	420	272	189	393	1986
MEAN	229	228	239	323	476	537	538	522	487	402	309	229	380	MEAN

LOCATION - LAT 54 14 39 N
LONG 97 35 27 W

REGULATED SINCE 1973

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO 05UB008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	880 AT 07 14 CST ON MAY 26	487 ON NOV 13 668 ON MAY 26	159 B ON MAR 25 273 B ON JAN 1	9 640 000 15 200 000	1969
1970	827 AT 15 03 CST ON AUG 9 *	807 ON JUL 22 *	326 ON OCT 3	16 800 000	1970
1971	758 AT 01 00 CST ON MAY 29	725 ON MAY 28	185 ON NOV 7	14 400 000	1971
1972	733 AT 12 07 CST ON MAY 9	728 ON MAY 15	183 B ON DEC 30	13 400 000	1972
1973	513 AT 12 10 CST ON JUL 12	498 ON JUL 12	187 B ON DEC 30	10 100 000	1973
1974	---	---	---	---	1974
1975	---	780 ON AUG 7	254 B ON DEC 30	16 500 000	1975
1976	627 AT 14 00 CST ON AUG 18	513 ON AUG 18	85.08 ON DEC 31 *	9 450 000	1976
1977	---	---	---	---	1977
1978	643 AT 15 20 CST ON SEP 23	623 ON SEP 22	117 B ON JAN 15	11 200 000	1978
1979	667 AT 19 36 CST ON JUN 25	646 ON JUL 8	169 B ON JAN 21	11 800 000	1979
1980	598 AT 08 40 CST ON AUG 28	570 ON AUG 29	182 B ON DEC 31	11 300 000	1980
1981	520 AT 14 10 CST ON SEP 23	499 ON SEP 23	140 RB ON DEC 30	8 880 000	1981
1982	763 AT 19 30 CST ON AUG 8	735 ON AUG 9	122 B ON MAR 15	10 300 000	1982
1983	---	621 ON AUG 3	179 B ON APR 11	11 200 000	1983
1984	567 AT 17 40 CST ON JUN 30	545 ON JUN 30	143 B ON DEC 28	9 610 000	1984
1985	885 AT 19 00 CST ON AUG 26	864 ON SEP 15	143 B ON JAN 1	11 700 000	1985
1986	619 AT 13 00 CST ON JUL 6	594 ON JUL 6	187 B ON DEC 25	12 400 000	1986
				12 000 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO 05UB009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	2 860	2 700	2 550	2 340	---	---	---	1967
1968	---	---	---	---	---	2 390	2 400	2 390	2 478	---	---	---	---	1968
1969	---	---	---	---	2 850	2 810	2 830	2 770	2 770	---	---	---	---	1969
1972	1 810	1 770	1 850	2 050	2 750	2 980	2 780	2 800	2 340	2 160	1 910	1 700	2 230	1972
1973	1 480	1 460	1 490	1 670	---	---	---	---	---	---	---	---	---	1973
1976	2 060	1 830	1 740	1 980	3 080	2 800	2 040	1 400	1 330	2 000	1 780	1 610	1 950	1976
1977	1 410	1 330	1 300	833	884	826	750	767	784	1 180	1 880	1 610	1 110	1977
1978	1 560	1 480	1 410	1 390	856	813	582	715	1 070	2 120	2 270	2 310	1 360	1978
1979	2 080	1 970	1 830	1 980	2 890	3 480	3 440	1 120	1 050	1 940	2 430	1 980	2 190	1979
1980	1 790	1 780	1 670	1 350	817	886	486	528	691	1 690	1 970	2 050	1 270	1980
1981	1 930	1 710	1 090	589	469	492	558	852	1 070	1 920	2 190	1 800	1 210	198
1982	1 680	1 520	1 410	1 300	1 020	752	850	1 110	1 860	2 220	2 140	2 030	1 490	1982
1983	1 970	1 920	1 900	1 830	1 270	932	1 110	1 150	1 220	1 780	2 100	1 790	1 580	1983
1984	1 750	1 620	1 600	1 330	974	983	1 140	1 150	1 350	1 640	1 880	1 880	1 440	1984
1985	1 780	1 700	1 630	1 520	1 110	1 250	1 280	1 210	1 420	1 950	2 210	2 810	1 850	1985
1986	2 220	2 160	2 120	2 310	3 360	3 080	1 880	1 440	1 480	1 930	2 150	2 170	2 180	1985
MEAN	1 810	1 710	1 630	1 550	1 880	1 700	1 880	1 450	1 580	1 910	2 080	1 980	1 640	MEAN

LOCATION - LAT 54 29 53 N
LONG 98 02 53 W
REGULATED SINCE 1975
DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO 05UB009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	3 060 AT 15 29 CST ON JUL 10	3 000 ON JUL 10	---	---	1967
1968	2 640 AT 13 50 CST ON SEP 15	2 590 ON SEP 16	---	---	1968
1969	3 000 AT 04 14 CST ON MAY 26	2 970 ON MAY 26	---	---	1969
1972	3 140 AT 12 41 CST ON MAY 30 *	3 090 ON MAY 22	1 600B ON DEC 31	70 400 000	1972
1973	---	---	---	---	1973
1976	---	3 260 ON MAY 28	878 ON JUL 19	61 800 000	1976
1977	---	2 190 ON NOV 16	578 ON MAY 19	35 000 000	1977
1978	---	2 470 ON DEC 2	527 ON JUL 2	43 000 000	1978
1979	---	3 850 ON JUL 9	450 ON AUG 20	69 000 000	1979
1980	---	2 260 ON DEC 5	254 ON MAY 16 *	40 200 000	1980
1981	---	2 280 ON OCT 23	379 ON JUN 7	38 100 000	1981
1982	---	2 320 ON NOV 10	733 ON MAY 27	47 000 000	1982
1983	---	2 210 ON NOV 18	872 ON JUN 11	49 800 000	1983
1984	---	2 080 ON NOV 13	890 ON MAY 26	45 500 000	1984
1985	---	2 970 ON DEC 30	977 ON MAY 29	52 300 000	1985
1986	---	3 890 ON MAY 15 *	1 280 ON JUL 22	61 800 000	1986
				51 700 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO 05UD004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	2 090	2 030	1 810	---	1958
1959	1 350	1 280	1 040	1 110	2 090	2 750	2 870	2 940	2 930	2 710	2 420	1 870	2 130	1959
1960	1 750	1 860	1 980	2 020	2 850	3 180	3 040	2 840	2 690	2 450	2 130	1 850	2 350	1960
1961	1 390	1 380	1 380	1 520	1 920	2 150	2 080	1 970	1 810	1 650	1 380	852	1 620	1961
1962	853	826	789	815	1 780	2 040	2 230	2 260	2 370	2 450	2 200	1 550	1 680	1962
1963	986	948	1 240	1 580	2 070	2 470	2 850	2 510	2 440	2 320	2 050	1 580	1 920	1963
1964	1 420	1 330	1 210	1 210	1 930	2 200	2 280	2 240	2 210	2 100	1 970	1 600	1 810	1964
1965	1 350	1 320	1 350	1 580	2 490	3 280	3 400	3 410	3 280	3 220	2 590	2 550	2 490	1965
1966	2 260	2 090	2 140	2 580	3 300	4 270	4 540	4 230	3 890	3 520	2 720	2 350	3 160	1966
1967	2 330	2 240	2 210	2 290	3 090	3 750	3 640	3 320	3 080	2 800	2 300	2 010	2 740	1967
1968	1 960	1 850	1 780	1 770	2 240	2 610	2 890	2 610	2 740	2 700	2 540	1 990	2 290	1968
1969	2 090	2 150	2 340	2 700	3 310	3 310	3 270	3 230	3 350	3 290	3 130	2 680	2 910	1969
1970	2 530	2 460	2 740	2 790	3 250	3 640	3 820	3 600	3 240	2 940	3 000	2 580	3 050	1970
1971	2 200	2 390	2 480	2 760	3 440	3 590	3 410	3 120	2 920	2 710	2 280	2 010	2 780	1971
1972	1 940	2 050	2 380	2 570	3 380	3 610	3 410	3 080	2 790	2 540	2 210	1 870	2 650	1972
1973	2 010	2 030	2 100	2 170	2 400	2 030	1 920	1 830	1 630	1 800	1 970	1 650	1 980	1973
1974	1 830	1 750	1 820	2 410	3 330	4 160	4 480	4 270	3 880	3 690	3 330	2 580	3 130	1974
1975	2 180	2 180	2 510	2 780	3 380	3 720	3 190	3 330	3 050	3 750	3 650	3 080	3 070	1975
1976	3 310	2 820	2 450	2 520	3 150	3 220	2 810	2 080	1 750	2 270	2 130R	1 700R	2 520R	1976
1977	1 560	1 490	1 440	1 050	922	1 060	1 060	1 020	1 050	1 300	2 350	1 940	1 350	1977
1978	1 740	1 630	1 590	1 620	1 680	1 180	1 180	1 300	1 590	2 640	2 970	2 750	1 820	1978
1979	2 380	2 220	2 200	2 300	3 490	4 570	4 420	3 320	1 550	2 290	3 020	2 330	2 760	1979
1980	2 130	2 080	1 970	1 980	1 180	1 200	1 000	1 150	1 250	2 080	2 440	2 350	1 730	1980
1981	2 220	1 890	1 550	1 110	1 040	815	1 210	1 170	1 420	2 240	2 740	2 210	1 650	1981
1982	1 860	1 790	1 850	1 610	1 770	1 410	1 490	1 740	2 370	2 830	2 980	2 730	2 030	1982
1983	2 680	2 590	2 560	2 520	2 160	1 750	1 880	1 900	1 880	2 280	2 830	2 510	2 290	1983
1984	2 380	2 120	1 980	2 020	1 840	1 800	1 750	1 780	1 840	2 090	2 270	2 290	1 980	1984
1985	2 230	2 110	1 980	2 110	1 740	1 840	2 000	1 890	2 150	2 850	2 910	3 400	2 250	1985
1986	3 270	2 830	2 800	3 090	4 320	4 320	2 920	2 410	2 140	2 430	2 790	2 880	3 010	1986
MEAN	2 010	1 920	1 910	2 020	2 470	2 710	2 870	2 480	2 400	2 540	2 530R	2 190R	2 330	MEAN

LOCATION - LAT 54 46 30 N DRAINAGE AREA 1 000 000 km²
LONG 97 55 50 W REGULATED SINCE 1973

R - REVISED SINCE JAN 1986

REMARKS - FOR THE PERIOD 1914-51 LAKE WINNIPEG ELEVATION WERE USED TO COMPUTE MONTHLY MEAN DISCHARGES FOR THIS STATION

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO 05UD004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	---	---	---	---	1958
1959	---	3 080 ON SEP 9	9868 ON MAR 31	87 100 000	1959
1960	---	3 260 ON JUN 15	1 4808 ON DEC 31	74 400 000	1960
1961	---	2 220 ON JUN 7	6878 ON DEC 20 *	51 100 000	1961
1962	---	2 550 ON OCT 11	7288 ON APR 15	53 000 000	1962
1963	---	2 720 ON JUN 30	9178 ON FEB 3	60 500 000	1963
1964	---	2 380 ON AUG 5	1 1908 ON MAR 21	57 200 000	1964
1965	---	3 510A ON JUN 28	1 3108 ON JAN 11	78 500 000	1965
1966	---	4 620 ON JUL 12	2 0508 ON FEB 5	99 900 000	1966
1967	3 850 AT 08 40 CST ON JUN 6	3 820 ON JUN 6	1 9808 ON DEC 21	85 400 000	1967
1968	---	2 880 ON SEP 21	1 700 ON APR 8	72 400 000	1968
1969	3 570 AT 10 42 CST ON SEP 5	3 540 ON SEP 5	1 9308 ON JAN 1	91 700 000	1969
1970	3 840 AT 21 33 CST ON JUL 15	3 910 ON JUL 11	2 3508 ON DEC 31	96 200 000	1970
1971	3 850 AT 02 00 CST ON MAY 29	3 850 ON MAY 28	1 9908 ON DEC 21	87 800 000	1971
1972	3 880 AT 02 11 CST ON JUN 14	3 820 ON JUN 14	1 7608 ON DEC 11	83 900 000	1972
1973	2 540 AT 05 34 CST ON MAY 28	2 530 ON MAY 25	1 500 ON SEP 18	62 400 000	1973
1974	4 590 AT 04 00 CST ON JUL 15	4 580 ON JUL 14	1 6708 ON FEB 27	98 800 000	1974
1975	---	3 940E ON AUG 26	2 0208 ON JAN 30	98 800 000	1975
1976	---	3 620E ON JAN 1	1 810RB ON DEC 30	79 800 000R	1976
1977	2 530 AT 08 07 CST ON NOV 20	2 530 ON NOV 20	878E ON MAY 10	42 800 000	1977
1978	3 170 AT 07 00 CST ON NOV 5	3 140 ON NOV 5	1 120 ON JUN 8	57 500 000	1978
1979	4 780 AT 14 45 CST ON JUN 20	4 760 ON JUN 20	1 250 ON AUG 31	87 100 000	1979
1980	2 590 AT 18 27 CST ON NOV 3	2 590 ON NOV 3	864 ON JUL 12	54 600 000	1980
1981	2 880 AT 21 15 CST ON NOV 7	2 880 ON NOV 8	781 ON JUN 17	52 000 000	1981
1982	3 110 AT 19 18 CST ON NOV 11	3 070 ON NOV 12	1 380 ON JUN 3	84 000 000	1982
1983	3 000 AT 21 40 CST ON NOV 7	2 930 ON NOV 7	1 580 ON JUL 6	72 200 000	1983
1984	---	2 4308 ON JAN 1	1 490 ON JUN 11	82 800 000	1984
1985	---	3 4808 ON DEC 29	1 580 ON MAY 28	71 000 000	1985
1986	4 870 AT 10 36 CST ON MAY 30 *	4 830 ON MAY 30 *	2 050 ON SEP 14	84 800 000	1986
				73 400 000R	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO 05UE005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	3 280	3 080	2 900	2 640	1 820	1 450	---	1960
1961	1 520	1 440	1 390	1 370	1 910	1 940	2 070	1 990	1 850	1 530	1 340	1 020	1 620	1961
1962	975	886	810	783	1 660	2 000	2 110	2 140	2 150	2 370	2 170	1 790	1 660	1962
1963	1 550	1 440	1 440	1 450	2 410	2 570	2 870	2 680	2 530	2 430	2 160	1 630	2 100	1963
1964	1 420	1 380	1 240	1 240	2 040	2 350	2 330	2 400	2 440	2 330	2 130	1 710	1 920	1964
1965	1 480	1 450	1 430	1 420	2 730	3 300	3 610	3 540	3 520	3 310	2 780	2 670	2 610	1965
1966	2 340	2 230	2 290	2 400	3 290	4 400	4 800	4 530	4 060	3 670	2 860	2 430	3 280	1966
1967	2 380	2 290	2 260	2 300	2 910	3 820	3 790	3 450	3 110	2 770	2 350	1 940	2 790	1967
1968	1 720	1 700	1 690	1 740	2 460	2 720	2 780	2 670	2 790	2 770	2 860	2 510	2 350	1968
1969	2 300	2 170	2 420	2 660	3 280	3 320	3 230	3 380	3 840	3 670	3 060	2 890	3 010	1969
1970	2 550	2 520	2 510	2 600	3 320	3 810	4 110	3 900	3 570	3 110	2 970	2 340	3 110	1970
1971	2 370	2 280	2 460	2 640	3 560	3 820	3 780	3 360	3 140	2 900	2 400	2 200	2 920	1971
1972	2 070	2 040	2 130	2 360	3 550	3 930	3 750	3 260	2 920	2 620	2 140	1 730	2 710	1972
1973	1 780	1 770	1 790	1 950	2 430	2 170	1 850	1 800	1 600	1 700	1 980	1 940	1 900	1973
1974	1 890	1 920	2 030	2 140	2 760	3 410	3 880	3 870	3 590	3 440	3 060	2 370	2 870	1974
1975	2 320	2 270	2 380	2 340	2 920	3 210	3 050	2 880	2 760	3 110	3 180	2 410	2 740	1975
1976	2 470	2 170	2 030	2 170	2 820	3 000	2 880	2 040	1 740	1 940	2 020	1 840	2 260	1976
1977	1 710	1 840	1 680	1 550	857	1 100	1 150	999	1 210	1 270	1 850	1 900	1 410	1977
1978	1 790	1 830	1 980	1 890	1 430	1 250	1 170	1 250	1 440	2 180	2 500	2 560	1 750	1978
1979	2 490	2 540	2 420	2 080	2 910	3 900	4 030	2 890	1 530	1 830	2 450	2 290	2 810	1979
1980	2 100	2 070	2 160	1 980	1 340	1 180	979	1 090	1 320	1 740	2 140	2 150	1 680	1980
1981	2 140	2 170	1 820	915	940	988	1 320	952	1 320	1 770	2 330	2 170	1 560	1981
1982	1 840	1 800	1 690	1 610	1 890	1 460	1 500	1 490	1 860	2 330	2 440	2 300	1 850	1982
1983	2 190	2 240	2 300	2 340	1 930	1 780	1 650	1 710	1 750	1 980	2 320	2 220	2 030	1983
1984	2 180	2 080	2 180	1 860	1 680	1 610	1 570	1 550	1 690	1 880	1 990	2 080	1 850	1984
1985	2 030	2 050	1 780	1 850	1 880	1 730	1 880	1 690	1 940	2 250	2 390	2 470	1 990	1985
1986	2 650	2 700	2 600	2 380	3 490	3 900	3 040	2 020	1 930	1 980	2 240	2 450	2 610	1986
MEAN	2 010	1 980	1 920	2 400	2 640	2 880	2 470	2 380	2 430	2 380	2 130	2 280		MEAN

LOCATION - LAT 56 02 20 N
LONG 96 31 30 W

DRAINAGE AREA 1 010 000 km²
REGULATED SINCE 1960

DATA CONTRIBUTED BY MANITOBA HYDRO

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO 05UE005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	2 560 ON AUG 2	881 ON DEC 20	51 200 000	1961
1962	---	2 510 ON OCT 18	742 ON APR 14	52 300 000	1962
1963	---	3 000 ON JUL 11	1 310 ON APR 14	66 200 000	1963
1964	---	2 690 ON SEP 13	1 150 ON APR 6	60 800 000	1964
1965	---	3 770 ON SEP 14	1 270 ON APR 11	82 400 000	1965
1966	---	4 980 ON JUL 22 *	2 160 ON FEB 3	105 000 000	1966
1967	---	4 020 ON JUN 8	1 610 ON DEC 31	86 000 000	1967
1968	---	3 340 ON DEC 25	1 570 ON MAR 5	74 400 000	1968
1969	---	3 820 ON SEP 9	2 040 ON JAN 14	94 900 000	1969
1970	---	4 190 ON JUL 6	2 260 ON DEC 16	98 100 000	1970
1971	---	3 990 ON JUL 9	1 950 ON NOV 22	92 100 000	1971
1972	---	4 180 ON JUN 16	1 600 ON DEC 13	85 700 000	1972
1973	---	2 660 ON JUN 4	1 440 ON SEP 13	60 000 000	1973
1974	---	3 960 ON JUL 29	1 830 ON FEB 5	90 500 000	1974
1975	---	3 430 ON JUL 1	2 200 ON FEB 6	86 300 000	1975
1976	---	3 170 ON JUN 8	1 600 ON SEP 18	71 500 000	1976
1977	---	2 120 ON NOV 18	419 ON MAY 8 *	44 300 000	1977
1978	---	2 750 ON NOV 7	971 ON JUL 10	55 300 000	1978
1979	---	4 080 ON JUL 7	1 380 ON SEP 6	82 500 000	1979
1980	---	2 250 ON MAR 10	684 ON JUL 21	53 300 000	1980
1981	---	2 470 ON NOV 29	497 ON AUG 3	49 300 000	1981
1982	---	2 690 ON NOV 10	1 090 ON JUL 1	58 400 000	1982
1983	---	2 480 ON NOV 18	1 520 ON MAY 4	64 100 000	1983
1984	---	2 270 ON JAN 1	1 370 ON MAY 8	58 800 000	1984
1985	---	2 610 ON DEC 31	1 590 ON JUN 14	82 900 000	1985
1986	---	4 050 ON JUN 12	1 860 ON SEP 18	82 400 000	1986
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		71 900 000	MEAN

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO 05UE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1951	---	---	---	---	---	---	---	3 310	3 180	3 110	2 550	2 010	---	1951
1952	1 770	1 700	1 650	1 710	2 610	2 860	2 980	2 910	2 860	2 720	2 520	2 150	2 370	1952
1953	1 910	1 760	1 670	1 650	2 080	2 500	2 940	3 100	3 100	3 120	2 980	2 430	2 440	1953
1954	2 120	1 840	1 610	1 590	2 180	2 870	3 270	3 540	3 570	3 530	3 370	3 110	2 720	1954
1955	2 830	2 460	2 240	2 180	3 080	3 510	3 800	3 780	3 580	3 380	2 860	2 550	3 020	1955
1956	2 420	2 170	2 080	2 020	2 830	3 400	3 450	3 410	3 250	2 940	2 740	2 210	2 750	1956
1957	1 900	1 760	1 700	1 860	2 210	2 730	2 950	2 950	2 820	2 700	2 270	1 840	2 300	1957
1958	1 840	1 530	1 500	1 590	2 030	2 310	2 250	2 280	2 280	---	---	---	---	1958
MEAN	2 080	1 880	1 780	1 770	2 430	2 880	3 090	3 180	3 080	3 070	2 760	2 330	2 600	MEAN

LOCATION - LAT 55 13 24 N
LONG 97 13 06 W

DRAINAGE AREA 1 010 000 km²
NATURAL FLOW

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO 05UE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1951	---	---	---	---	1951
1952	---	3 030 ON JUL 23	1 650E ON MAR 1	75 000 000	1952
1953	---	3 140 ON SEP 30	1 650E ON APR 1	77 000 000	1953
1954	---	3 600 ON SEP 3	1 590E ON APR 1	85 900 000	1954
1955	3 850 AT 09 00 CST ON JUL 21 *	3 850 ON JUL 18 *	2 180E ON APR 1	95 400 000	1955
1956	3 480 AT 02 00 CST ON JUL 23	3 480 ON JUL 23	2 020E ON APR 1	88 800 000	1956
1957	3 030 AT 20 00 CST ON AUG 7	3 000 ON JUL 29	1 680E ON APR 1	72 400 000	1957
1958	---	2 340 ON JUN 12	1 500E ON MAR 1 *	---	1958
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		82 100 000	MEAN

NETLEY CREEK NEAR MATLOCK - STATION NO 05DJ009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.43	0.409	0.085	0.010	0.051	0.024	0.004	---	---	0.478	1960
1961	---	---	0.089	0.361	0.024	0	0	0	0	---	---	---	0.113	1961
1962	---	---	0	0.353	0.104	0.159	0	0.831	0.186	0.089	---	---	0.152	1962
1963	---	---	0.515	4.42	1.87	2.94	0.801	0.078	0	0	---	---	2.42	1963
1964	---	---	0	0.186	0.064	0.087	0.040	0.050	0	0	---	---	0.083	1964
1965	---	---	0	1.01	0.493	0.418	0.118	0.007	0.003	0.003	---	---	0.478	1965
1966	---	---	0.100	0.741	0.898	0.094	0.082	0.003	0	0	---	---	0.459	1966
1967	---	---	0	1.48	0.457	0.016	0	0	0	0	---	---	0.483	1967
1968	---	---	0.083	0.076	0.033	0.011	0.009	0.302	0.048	0.027	---	---	0.051	1968
1969	---	---	0	2.17	0.837	0.235	0.083	0.028	0.005	0.006	---	---	0.805	1969
1970	---	---	0	0.943	1.04	0.297	0.104	0.015	0	0.001	---	---	0.570	1970
1971	---	---	0	0.867	0.124	0.010	0.005	0.001	0	0	---	---	0.247	1971
1972	---	---	0	0.865	0.043	0.002	0	0	0	0	---	---	0.224	1972
1973	---	---	0.032	0.002	0.003	0.429	---	---	---	---	---	---	0.115	1973
1974	---	---	0	7.44	7.28	1.46	---	---	---	---	---	---	4.03	1974
1975	---	---	0	0.349	0.105	0.012	---	---	---	---	---	---	0.115	1975
1976	---	---	0	3.55	0.994	0.082	---	---	---	---	---	---	1.15	1976
1977	---	---	0	0.002	0	0.004	---	---	---	---	---	---	0.002	1977
1978	---	---	0	3.48	0.775	0.187	---	---	---	---	---	---	1.10	1978
1979	---	---	0	2.85	3.92	1.78	---	---	---	---	---	---	2.09	1979
1980	---	---	0	0.177	0	0	---	---	---	---	---	---	0.044	1980
1981	---	---	0.011	0.008	0.002	0.003	---	---	---	---	---	---	0.006	1981
1982	---	---	0.271	2.03	0.082	0.009	---	---	---	---	---	---	0.585	1982
1983	---	---	0.027	2.07	0.106	0.134	---	---	---	---	---	---	0.575	1983
1984	---	---	0.029	0.142	0.025	0.055	---	---	---	---	---	---	0.082	1984
1985	---	---	0.084	0.488	0.068	0.025	---	---	---	---	---	---	0.180	1985
1986	---	---	0.213	1.37	2.30	0.304	---	---	---	---	---	---	1.05	1986
MEAN	---	---	0.053	1.43	0.815	0.327	0.081	0.105	0.021	0.008	---	---	0.554	MEAN

LOCATION - LAT 50 26 52 N DRAINAGE AREA 245 km^2
LONG 97 09 56 W NATURAL FLOW

REMARKS - HIGHER MAX DISCHARGES OCCURRED OUTSIDE THE STD PER IN 1964 AND 68 EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

NETLEY CREEK NEAR MATLOCK - STATION NO 05DJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	4.81 B ON APR 17	0.08 ON MAR 1 *	5 030	1960
1961	---	0.580 ON APR 2	0.08 ON MAR 1	1 190	1961
1962	---	3.26 ON APR 20	0.08 ON MAR 1	1 610	1962
1963	---	8.27 ON APR 8	0.08 ON MAR 1	25 400	1963
1964	---	0.617 ON APR 18	0.08 ON MAR 1	878	1964
1965	---	5.15 B ON APR 14	0.08 ON MAR 1	5 020	1965
1966	---	3.99 ON MAY 5	0.08 ON MAR 1	4 830	1966
1967	---	4.02 B ON APR 14	0.08 ON MAR 1	5 090	1967
1968	---	1.11 B ON MAR 30	0.08 ON MAR 1	535	1968
1969	---	8.01 B ON APR 13	0.08 ON MAR 1	8 480	1969
1970	---	4.84 B ON APR 19	0.08 ON MAR 1	6 000	1970
1971	---	4.47 ON APR 19	0.08 ON MAR 1	2 610	1971
1972	---	4.42 ON APR 16	0.08 ON MAR 1	2 360	1972
1973	---	1.88 ON JUN 19	0.08 ON MAR 1	1 210	1973
1974	---	26.7 ON APR 22 *	0.08 ON MAR 1	42 500	1974
1975	---	1.13 B ON APR 23	0.08 ON MAR 1	1 220	1975
1976	---	7.05 ON APR 13	0.08 ON MAR 1	12 100	1976
1977	---	0.028 ON JUN 19	0.08 ON MAR 1	16.4	1977
1978	---	6.71 ON APR 13	0.03 ON MAR 1	11 600	1978
1979	---	9.84 ON APR 22	0.08 ON MAR 1	22 000	1979
1980	---	0.672B ON APR 14	0.08 ON MAR 1	459	1980
1981	0.779 AT 09 31 CST ON MAY 8	0.083E ON MAR 29	0.08 ON MAR 1	83.6	1981
1982	---	7.03 B ON APR 13	0.08 ON MAR 1	6 170	1982
1983	6.74 AT 13 12 CST ON APR 6 *	5.18 ON APR 6	0.08 ON MAR 1	6 080	1983
1984	---	0.340B ON MAR 30	0.08 ON MAR 1	653	1984
1985	1.85 B AT 13 44 CST ON APR 2	1.31 B ON APR 2	0.08 ON MAR 1	1 680	1985
1986	4.78 B AT 09 59 CST ON APR 1	4.04 ON MAY 5	0.08 ON MAR 1	11 100	1986
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 880	MEAN

NETLEY CREEK NEAR PETERSFIELD - STATION NO 05OJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.024	8.31	1.14	0.295	0.107	0.120	0.089	0.003	---	---	1.24	1960
1961	---	---	0.632	1.73	0.309	0.028	0.001	0	0	0.002	---	---	0.334	1961
1962	---	---	0	3.11	0.353	0.262	0.082	2.14	0.441	0.301	---	---	0.830	1962
1963	---	---	2.22	10.6	2.41	5.89	0.907	0.230	0.047	0.076	---	---	2.76	1963
1964	---	---	0.008	1.84	0.324	0.173	0.124	0.170	0.130	0.092	---	---	0.366	1964
1965	---	---	0	6.89	0.983	0.769	0.236	0.088	0.104	0.119	---	---	1.10	1965
1966	---	---	0.006	4.43	2.64	0.297	0.245	0.067	0.047	0.095	---	---	0.972	1966
1967	---	---	0	6.70	0.984	0.118	0.058	0.023	0.021	0.018	---	---	0.976	1967
1968	---	---	0.540	1.25	0.159	0.172	0.229	0.937	0.352	0.240	---	---	0.484	1968
1969	---	---	0.040	7.36	1.94	0.619	0.314	0.200	0.085	0.103	---	---	1.32	1969
1970	---	---	0.010	6.87	1.91	0.572	0.299	0.070	0.080	0.080	---	---	1.22	1970
1971	---	---	0.013	7.08	0.296	0.228	0.440	0.048	0.063	0.216	---	---	1.03	1971
1972	---	---	0.016	5.61	0.206	0.057	0.081	0.037	0.042	0.042	---	---	0.745	1972
1973	---	---	0.651	0.078	0.023	0.471	0.122	0.098	0.206	0.335	---	---	0.248	1973
1974	---	---	0.014	22.5	13.8	2.34	0.793	0.184	0.105	0.090	---	---	4.93	1974
1975	---	---	0.003	2.36	0.238	0.080	0.028	0.031	0.025	0.050	---	---	0.344	1975
1976	---	---	0	9.26	1.22	0.168	0.039	0.012	0.030	0.033	---	---	1.32	1976
1977	---	---	0.011	0.272	0.028	0.157	0.052	0.038	0.471	0.178	---	---	0.149	1977
1978	---	---	0	11.5	1.13	0.347	0.580	0.015	0.005	0.054	---	---	1.68	1978
1979	---	---	0	13.7	7.06	2.70	0.384	0.076	0.077	0.062	---	---	2.97	1979
1980	---	---	0	1.36	0.221	0.060	0.012	0.053	0.051	0.150	---	---	0.236	1980
1981	---	---	0.144	0.117	0.027	0.013	0.063	0.012	0.055	0.397	---	---	0.104	1981
1982	---	---	1.24	3.94	0.345	0.154	0.070	0.136	0.084	0.232	---	---	0.764	1982
1983	---	---	0.424	6.81	0.192	1.53	0.361	0.110	0.047	0.074	---	---	1.15	1983
1984	---	---	0.484	0.810	0.149	0.175	0.136	0.100	0.086	0.148	---	---	0.260	1984
1985	---	---	1.56	0.879	0.215	0.098	0.056	0.173	0.098	0.098	---	---	0.397	1985
1986	---	---	2.32	6.79	4.81	0.538	0.131	0.083	0.080	0.068	---	---	1.84	1986
MEAN	---	---	0.384	5.82	1.60	0.677	0.220	0.194	0.108	0.124	---	---	1.10	MEAN

LOCATION - LAT 50 19 38 N DRAINAGE AREA 599 km²
LONG 97 02 39 W NATURAL FLOW

NETLEY CREEK NEAR PETERSFIELD - STATION NO 05OJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	41.3 ON APR 15	0 B ON MAR 1 *	26 200	1960
1961	---	5.30 ON APR 21	0 B ON MAR 1	7 080	1961
1962	---	25.0 B ON APR 21	0 B ON MAR 1	17 600	1962
1963	---	37.4 ON APR 9	0 ON SEP 8	58 500	1963
1964	---	9.63 B ON APR 15	0.0088 ON MAR 1	7 750	1964
1965	---	31.4 ON APR 15	0 B ON MAR 1	23 300	1965
1966	---	12.5 ON MAY 5	0 B ON MAR 1	20 600	1966
1967	---	21.0 ON APR 15	0 B ON MAR 1	20 700	1967
1968	---	7.59 ON AUG 25	0 B ON MAR 1	10 200	1968
1969	---	32.6 B ON APR 13	0.040B ON MAR 1	27 900	1969
1970	---	25.5 B ON APR 25	0.010B ON MAR 1	25 900	1970
1971	---	28.6 ON APR 19	0.011 ON AUG 28	21 900	1971
1972	---	23.2 ON APR 18	0.018B ON MAR 1	15 700	1972
1973	---	3.48 B ON MAR 23	0.018 ON JUN 12	5 240	1973
1974	---	71.6 ON APR 21 *	0.014B ON MAR 1	104 000	1974
1975	---	6.94 ON APR 21	0 ON JUL 15	7 280	1975
1976	---	36.5 ON APR 10	0 E ON MAR 1	28 000	1976
1977	---	2.42 ON SEP 26	0 B ON MAR 1	3 180	1977
1978	---	36.0 ON APR 16	0 B ON MAR 1	35 600	1978
1979	---	62.4 ON APR 23	0 B ON MAR 1	62 900	1979
1980	---	4.91 B ON APR 10	0 B ON MAR 1	4 980	1980
1981	0.845 AT 03 04 CST ON OCT 14	0.785 ON OCT 14	0 B ON MAR 1	2 200	1981
1982	12.0 AT 03 12 CST ON APR 15	11.7 B ON MAR 30	0 B ON MAR 1	16 200	1982
1983	---	21.7 ON APR 6	0 B ON MAR 1	24 300	1983
1984	---	3.83 B ON MAR 31	0 B ON MAR 1	5 510	1984
1985	---	6.74 B ON MAR 25	0 B ON MAR 1	8 410	1985
1986	37.5 B AT 00 49 CST ON MAR 31 *	33.6 B ON MAR 31	0 B ON MAR 1	39 000	1986
				23 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH PINE RIVER NEAR PINE RIVER - STATION NO 05LG001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.582	6.18	9.13	2.32	0.969	2.08	1.65	---	---	---	1954
1955	---	---	---	1.54	3.56	1.43	0.315	0.020	0.074	0.143	---	---	---	1955
1956	---	---	---	0.062	3.32	2.94	1.86	0.204	0.328	0.311	---	---	---	1956
1957	---	---	0	1.36	3.54	0.457	0.177	0.062	0.127	0.123	---	---	0.732	1957
1958	---	---	0.100	0.603	0.390	0.228	1.76	0.269	1.14	0.728	---	---	0.652	1958
1959	---	---	0.206	0.614	1.67	2.80	1.33	0.145	2.63	1.68	---	---	1.50	1959
1960	---	---	0.026	1.38	5.29	3.02	0.782	0.288	0.185	0.260	---	---	1.40	1960
1961	---	---	0.029	0.127	0.315	0.072	0.013	0.004	0.014	0.109	---	---	0.085	1961
1962	---	---	0.029	0.461	0.622	0.446	0.154	0.126	0.379	0.237	---	---	0.305	1962
1963	---	---	0.024	1.11	2.35	2.03	0.441	0.051	0.095	0.104	---	---	0.772	1963
1964	---	---	0.177	0.578	1.45	0.131	0.081	0.053	0.082	0.109	---	---	0.328	1964
1965	---	---	0.087	0.541	4.29	1.73	1.18	1.72	1.86	0.587	---	---	1.50	1965
1966	---	---	0.157	0.614	4.83	3.81	1.81	0.781	0.078	0.167	---	---	1.51	1966
1967	---	---	0.234	0.975	5.22	2.08	0.621	1.01	0.197	0.496	---	---	1.36	1967
1968	---	---	0.145	0.584	1.58	1.38	1.49	2.50	0.604	0.438	---	---	1.09	1968
1969	---	---	0.181	2.10	1.65	1.30	1.85	0.805	1.09	2.80	---	---	1.47	1969
1970	---	---	0.317	1.21	7.07	2.69	4.31	1.28	0.984	2.18	---	---	2.52	1970
1971	---	---	0.198	3.22	1.96	2.91	2.15	0.745	0.213	1.80	---	---	1.62	1971
1972	---	---	0.152	2.03	4.86	1.23	0.870	0.215	0.154	0.195	---	---	1.21	1972
1973	---	---	0.067	0.433	1.75	5.37	2.46	0.639	1.88	0.725	---	---	1.85	1973
1974	---	---	0.226	3.10	7.52	2.74	0.813	0.680	1.75	0.970	---	---	2.22	1974
1975	---	---	0.122	1.40	5.72	3.76	0.861	0.411	1.81	1.66	---	---	1.95	1975
1976	---	---	0.176	3.49	2.04	6.70	1.51	0.673	0.201	0.174	---	---	1.85	1976
1977	---	---	0.100	1.09	1.29	0.295	1.67	1.02	3.58	2.13	---	---	1.39	1977
1978	---	---	0.114	0.922	1.41	1.43	0.455	0.110	0.548	0.862	---	---	0.702	1978
1979	---	---	0.149	0.581	8.64	3.23	0.575	0.468	0.475	0.475	---	---	1.83	1979
1980	---	---	0.252	1.84	0.589	0.319	0.284	2.45	0.480	0.545	---	---	0.851	1980
1981	---	---	0.353	0.511	0.785	2.54	0.518	0.238	0.150	0.503	---	---	0.896	1981
1982	---	---	0.033	0.781	0.855	0.402	2.82	0.741	0.385	1.25	---	---	0.898	1982
1983	---	---	0.101	1.12	5.64	2.30	2.21	0.832	0.485	0.808	---	---	1.64	1983
1984	---	---	0.120	1.23	3.03	5.28	1.35	0.856	0.754	1.59	---	---	1.77	1984
1985	---	---	0.048	2.93	2.17	2.37	1.40	3.79	1.47	1.41	---	---	1.94	1985
1986	---	---	0.269	2.21	4.01	1.15	1.17	0.585	1.31	1.97	---	---	1.58	1986
MEAN	---	---	0.140	1.25	3.20	2.38	1.25	0.742	0.835	0.886	---	---	1.30	MEAN

LOCATION - LAT 51 49 00 N DRAINAGE AREA 210 km²
LONG 100 32 00 W NATURAL FLOW

NORTH PINE RIVER NEAR PINE RIVER - STATION NO 05LG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	24.1 ON MAY 28	0 B ON APR 1 *	---	1954
1955	---	13.6 ON MAY 4	0 ON AUG 12	---	1955
1956	---	9.03 ON JUN 26	0 B ON APR 1	---	1956
1957	---	12.6 ON MAY 1	0 B ON MAR 1	15 500	1957
1958	13.6 AT 08 00 CST ON JUL 6	10.7 ON JUL 7	0 B ON MAR 1	13 800	1958
1959	19.8 AT 19 00 CST ON JUN 27	16.8 ON JUN 28	0 B ON MAR 22	31 800	1959
1960	13.1 AT 21 00 CST ON MAY 13	12.4 ON MAY 13	0 B ON MAR 1	29 700	1960
1961	---	0.450 ON MAY 7	0 B ON MAR 1	1 810	1961
1962	1.88 AT 00 25 CST ON MAY 31	1.66 ON MAY 31	0 B ON MAR 1	6 480	1962
1963	9.12 AT 22 30 CST ON MAY 13	7.95 ON MAY 14	0 B ON MAR 1	16 300	1963
1964	5.38 AT 18 40 CST ON MAY 8	4.84 ON MAY 9	0.020 ON JUL 27	6 940	1964
1965	19.3 AT 12 15 CST ON MAY 7	18.0 ON MAY 7	0.0718 ON MAR 1	31 700	1965
1966	13.5 AT 11 30 CST ON MAY 19	12.7 ON MAY 19	0.031 ON SEP 23	31 800	1966
1967	11.6 B AT 02 00 CST ON MAY 7	9.46 B ON MAY 7	0.093 ON SEP 7	28 700	1967
1968	8.30 AT 08 05 CST ON AUG 20	7.79 ON AUG 20	0.1108 ON MAR 1	23 100	1968
1969	14.6 AT 02 01 CST ON OCT 4	12.2 ON OCT 4	0.1818 ON MAR 1	31 200	1969
1970	25.7 AT 19 10 CST ON JUL 24	19.8 ON JUL 25	0.3178 ON MAR 1	53 200	1970
1971	12.5 AT 02 30 CST ON JUN 6	11.4 ON JUN 8	0.184 ON SEP 12	34 300	1971
1972	11.8 AT 01 30 CST ON APR 30	10.6 ON APR 30	0.122 ON AUG 27	25 700	1972
1973	26.4 AT 20 56 CST ON JUN 19	24.9 ON JUN 20 *	0.0258 ON MAR 1	35 000	1973
1974	20.5 AT 00 06 CST ON MAY 22	18.0 ON MAY 22	0.1988 ON MAR 30	46 900	1974
1975	13.1 AT 04 23 CST ON MAY 9	12.3 ON MAY 8	0.1228 ON MAR 1	41 800	1975
1976	26.2 AT 04 49 CST ON JUN 14	24.9 ON JUN 14	0.133 ON SEP 23	39 200	1976
1977	10.6 AT 05 11 CST ON SEP 26	10.1 ON SEP 26	0.0798 ON MAR 1	29 500	1977
1978	3.65 AT 22 00 CST ON APR 27	3.23 ON APR 28	0.048 ON AUG 12	14 900	1978
1979	25.3 AT 01 39 CST ON MAY 26	23.8 ON MAY 26	0.1338 ON MAR 1	38 700	1979
1980	9.37 AT 11 45 CST ON AUG 8	8.58 ON AUG 8	0.113 ON JUL 31	18 000	1980
1981	8.64 AT 11 36 CST ON JUN 18	7.50 ON JUN 18	0.075 ON SEP 11	14 700	1981
1982	21.6 AT 14 29 CST ON JUL 17	16.0 ON JUL 18	0.0208 ON MAR 1	19 000	1982
1983	14.3 AT 03 19 CST ON MAY 18	12.9 ON MAY 19	0.0888 ON APR 3	34 700	1983
1984	27.8 AT 09 11 CST ON JUN 23 *	24.3 ON JUN 23	0.0528 ON MAR 31	37 400	1984
1985	21.7 AT 05 48 CST ON AUG 14	19.0 ON AUG 14	0 B ON MAR 1	41 200	1985
1986	10.2 AT 04 19 CST ON SEP 27	8.47 ON SEP 27	0.010E ON SEP 4	33 500	1986
				27 500	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO 06GB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	---	---	266	209	163	---	1972
1973	95.2	66.2	56.1	43.2	78.6	143	126	87.4	63.9	55.1	52.1	42.8	75.9	1973
1974	39.1	36.9	31.0	24.6	---	---	101	173	194	156	112	87.7	---	1974
1975	63.9	45.5	37.3	41.7	115	196	208	154	107	86.9	77.7	70.5	101	1975
1976	63.9	49.8	41.0	39.8	---	---	230	136	103	139	135	100	---	1976
1977	79.7	63.8	51.0	56.1	178	278	248	289	219	172	125	89.7	155	1977
1978	66.2	49.7	36.6	28.9	40.4	255	279	274	380	297	195	123	169	1978
1979	80.8	57.9	42.9	34.9	39.3	213	195	123	82.7	70.1	66.6	55.8	88.6	1979
1980	40.4	33.6	29.6	35.0	79.7	127	131	172	381	278	180	115	134	1980
1981	72.2	52.0	41.1	36.3	70.6	200	199	156	123	105	88.9	66.7	101	1981
1982	48.4	38.4	32.1	27.6	83.1	214	215	130	103	111	110	76.0	99.3	1982
1983	58.7	49.0	42.6	39.1	46.6	376	459	292	279	306	250	151	198	1983
1984	106	78.7	58.2	57.1	213	284	199	143	110	105	88.2	68.8	124	1984
1985	56.8	48.9	43.7	40.0	144	340	204	121	99.3	115	117	86.9	118	1985
1986	67.1	53.0	41.3	31.8	126	667	380	232	148	114	88.4	70.7	158	1986
MEAN	67.0	51.7	41.8	38.3	101	273	227	177	171	158	126	91.1	127	MEAN

LOCATION - LAT 58 50 40 N DRAINAGE AREA, 18 400 km²
LONG 98 17 20 W NATURAL FLOW

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO 06GB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	---	149 ON JUN 13	39.88 ON DEC 26	2 390 000	1973
1974	203 AT 14 00 CST ON SEP 8	200 ON SEP 8	---	---	1974
1975	225 AT 17 00 CST ON JUL 2	222 ON JUL 2	36.08 ON MAR 26	3 180 000	1975
1976	283 AT 11 35 CST ON JUN 21	281 ON JUN 21	---	---	1976
1977	317 AT 10 30 CST ON AUG 11	314 ON AUG 11	45.38 ON APR 5	4 880 000	1977
1978	408 AT 17 16 CST ON SEP 11	405 ON SEP 11	27.88 ON APR 29	5 330 000	1978
1979	251 AT 18 40 CST ON JUN 18	247 ON JUN 18	32.88 ON MAY 2	2 790 000	1979
1980	424 AT 16 57 CST ON SEP 18	422 ON SEP 18	27.88 ON APR 8	4 230 000	1980
1981	215 AT 14 56 CST ON JUL 5	214 ON JUL 9	35.88 ON APR 30	3 190 000	1981
1982	252 AT 15 45 CST ON JUL 1	252 ON JUL 3	26.18 ON APR 25 *	3 130 000	1982
1983	805 AT 20 20 CST ON JUN 28	804 ON JUN 29	38.18 ON APR 26	6 200 000	1983
1984	286 ON JUN 10	281 ON JUN 10	43.28 ON APR 17	3 930 000	1984
1985	362 AT 18 00 CST ON JUN 14	362 ON JUN 10	38.98 ON APR 27	3 730 000	1985
1986	785 ON JUN 13 *	778 ON JUN 13 *	27.08 ON MAY 3	5 290 000	1986
				4 020 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK CREEK NEAR STOCKTON - STATION NO 05NG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.617	1.53	1.17	0.268	0.014	0	0	0	---	---	---	1961
1962	---	---	0	3.73	0.745	1.63	0.158	0.378	0.042	0.005	---	---	---	1962
1963	---	---	0.829	0.868	0.698	0.307	0.126	0.130	0.079	0.011	---	---	---	1963
1964	---	---	0	0.991	0.917	0.186	0.056	0.012	0.010	0.009	---	---	---	1964
1965	---	---	0	3.73	1.83	0.578	0.697	0.078	0.115	0.113	---	---	---	1965
1966	---	---	2.75	2.90	1.37	0.415	0.344	0.078	0.031	0.018	---	---	---	1966
1967	---	---	0.031	0.779	0.937	0.310	0.059	0.004	0.006	0.008	---	---	---	1967
1968	---	---	0.290	0.151	0.061	0.010	0.044	0.207	0.385	0.312	---	---	---	1968
1969	---	---	0	10.4	2.89	0.358	0.455	0.307	0.260	0.193	---	---	---	1969
1970	---	---	0.005	4.63	7.91	1.91	0.755	0.407	0.173	0.080	---	---	---	1970
1971	---	---	0	1.93	1.81	1.10	0.785	0.219	0.075	0.074	---	---	---	1971
1972	---	---	2.02	3.05	1.25	0.447	0.198	0.198	0.219	0.234	---	---	---	1972
1973	---	---	0.038	0.074	0.140	0.104	0.180	0.141	0.048	0.031	0.016	0.004	---	1973
1974	0.001	0	0	14.7	8.72	2.33	0.461	0.289	0.131	0.039	0.042	0.019	2.22	1974
1975	0.017	0.018	0.013	1.95	2.31	0.609	0.125	0.123	0.225	0.189	0.075	0.019	0.474	1975
1976	0.015	0.015	0.010	18.8	3.84	0.438	0.039	0.010	0.008	0.014	0.016	0.014	1.91	1976
1977	0.005	0.003	0.003	0.016	0.021	0.001	0.008	0.002	0.008	0.005	0.007	0.003	0.007	1977
1978	0.006	0.005	0.156	2.59	0.495	0.107	0.085	0.012	0	0.001	0.001	0.002	0.267	1978
1979	0.002	0.002	0.002	3.83	5.87	0.957	0.324	0.147	0.036	0.022	0.018	0.015	0.923	1979
1980	0.011	0.013	0.008	0.252	0.012	0.004	0.013	0.118	0.001	0.004	0.007	0.002	0.037	1980
1981	0.001	0.257	0.028	0.003	0.003	0.004	0.001	0.845	0.280	0.019	0.022	0.014	0.106	1981
1982	0.005	0.004	0.885	2.30	0.801	0.188	0.234	0.035	0	0.002	0.005	0.007	0.372	1982
1983	0.006	0.007	1.20	4.87	1.33	0.341	0.152	0.014	0.001	0.001	0.001	0.002	0.842	1983
1984	0.001	0.001	0.100	0.011	0.001	0.003	0.001	0	0	0	0	0	0.010	1984
1985	0	0	2.31	1.53	0.180	0.010	0.007	0.003	0.001	0.007	0.002	0.001	0.340	1985
1986	0.001	0.001	1.52	2.37	3.80	0.517	0.447	0.223	0.029	0.007	0.004	0.004	0.733	1986
MEAN	0.005	0.025	0.493	3.38	1.87	0.505	0.221	0.144	0.082	0.053	0.015	0.008	0.620	MEAN

LOCATION - LAT 49 33 44 N DRAINAGE AREA, 1 060 km²
LONG 99 30 49 W NATURAL FLOW

OAK CREEK NEAR STOCKTON - STATION NO 05MG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---			---	
1962	---	5.64 B ON MAR 26	0 B ON MAR 1 *	---	1961
1963	---	26.9 ON APR 17	0 B ON MAR 1	---	1962
1964	---	7.42 B ON MAR 23	0 B ON MAR 1	---	1963
		2.75 B ON APR 6	0 B ON MAR 1	---	1964
1965	---				
1966	---	23.6 B ON APR 11	0 B ON MAR 1	---	1965
1967	---	13.6 B ON MAR 17	0 B ON MAR 1	---	1966
1968	---	1.47 ON APR 27	0 B ON MAR 1	---	1967
1969	---	1.28 ON AUG 25	0 ON AUG 10	---	1968
		37.9 ON APR 11	0 B ON MAR 1	---	1969
1970	---				
1971	---	15.7 ON APR 25	0 B ON MAR 1	---	1970
1972	---	6.06 B ON APR 8	0 B ON MAR 1	---	1971
1973	1.27 AT 00 29 CST ON JUL 26	12.0 B ON MAR 16	0 B ON MAR 1	---	1972
1974	58.6 B AT 18 17 CST ON APR 18 *	0.926 ON JUL 25	0 B ON MAR 1	---	1973
		43.0 B ON APR 18 *	0 B ON JAN 15	70 000	1974
1975	8.13 AT 02 49 CST ON APR 29	7.65 ON APR 29			
1976	---	40.5 ON APR 6	0.0108 ON DEC 29	14 900	1975
1977	0.804 AT 14 59 CST ON NOV 16	0.144 ON MAY 6	0.0028 ON APR 1	60 500	1976
1978	10.5 B AT 05 43 CST ON APR 6	9.63 B ON APR 6	0 ON MAY 31	218	1977
1979	29.8 B AT 16 56 CST ON APR 21	21.7 B ON APR 21	0 ON SEP 3	9 050	1978
			0.0028 ON JAN 1	29 100	1979
1980	4.02 AT 03 27 CST ON AUG 21	2.38 ON AUG 21			
1981	11.1 AT 06 59 CST ON AUG 31	7.86 ON AUG 31	0 ON MAY 28	1 160	1980
1982	17.8 B AT 15 44 CST ON MAR 30	13.7 B ON MAR 30	0 B ON JAN 25	3 330	1981
1983	18.2 B AT 19 56 CST ON MAR 31	17.6 B ON MAR 31	0 ON SEP 2	11 700	1982
1984	0.9218 AT 19 46 CST ON MAR 24	0.6658 ON MAR 25	0.001 ON AUG 30	20 300	1983
			0 ON APR 23	313	1984
1985	13.9 B AT 19 13 CST ON MAR 21	11.9 B ON MAR 21	0 B ON JAN 1	10 700	1985
1986	13.0 AT 23 49 CST ON MAY 5	12.5 ON MAY 6	0.0018 ON JAN 1	23 100	1986
				19 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER AT SHOAL LAKE - STATION NO 05MG008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.192	0.046	0.018	0	0	0	0	---	---	---	1965
1966	---	---	0.006	0.169	0.342	0.031	0.006	0	0	0	---	---	---	1966
1967	---	---	0	1.97	1.05	0.074	0.006	0	0	0	---	---	---	1967
1968	---	---	0.134	0.089	0.002	0	0	0	0	0	---	---	---	1968
1969	0	0	0	0.806	0.212	0.022	0.029	0.002	0	0.001	0	0	0.089	1969
1970	0	0	0	0.348	0.454	0.096	0.037	0.001	0.011	0.006	0.005	0.002	0.080	1970
1971	0	0	0	0.280	0.224	0.325	0.250	0.054	0.003	0.030	0.008	0	0.098	1971
1972	0	0	0.001	1.20	1.15	0.337	0.032	0.001	0	0	0	0	0.226	1972
1973	0	0	0.016	0.002	0.001	0.002	0	0	0	0	0	0	0.002	1973
1974	0	0	0	1.18	0.926	0.321	0.131	0.003	0	0	0	0	0.213	1974
1975	0	0	0	0.414	0.708	0.280	0.184	0.134	0.292	0.349	0.226	0.084	0.222	1975
1976	0.032	0.011	0.002	3.97	1.53	0.333	0.289	0.081	0.010	0.004	0.001	0	0.519	1976
1977	0	0	0.005	0.023	0.010	0	0	0	0	0	0	0	0.083	1977
1978	0	0	0.001	0.190	0.021	0.005	0	0	0	0	0	0	0.018	1978
1979	0	0	0	1.19	1.74	0.575	0.216	0.150	0	0	0	0	0.324	1979
1980	0	0	0	0.029	0	0	0	0	0.001	0.001	0.001	0	0.003	1980
1981	0	0	0.005	0.008	0.010	0.008	0.001	0	0	0	0	0	0.003	1981
1982	0	0	0	0.054	0	0	0.223	0.023	0	0	0.001	0	0.025	1982
1983	0	0	0	0.790	0.232	0	0	0	0	0	0	0	0.085	1983
1984	0	0	0	0	0	0.013	0	0	0	0	0	0	0.001	1984
1985	0	0	0.048	0.267	0.005	0	0	0.048	0.032	0.007	0.001	0	0.034	1985
1986	0	0	0.102	2.32	0.884	0.116	0.030	0.082	0	0	0	0	0.293	1986
MEAN	0.002	0.001	0.015	0.704	0.434	0.116	0.064	0.026	0.016	0.018	0.014	0.005	0.124	MEAN

LOCATION - LAT 50 26 33 N LONG 100 35 16 W DRAINAGE AREA 372 km^2 NATURAL FLOW

OAK RIVER AT SHOAL LAKE - STATION NO 05MG008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	0.7798 ON APR 14	0.0 ON MAR 1 *	---	1965
1966	---	1.04 ON MAY 3	0.0 ON MAR 1	---	1966
1967	---	6.51 ON APR 25	0.0 ON MAR 1	---	1967
1968	---	1.37 B ON MAR 28	0.0 ON MAR 1	---	1968
1969	3.03 B AT 21 15 CST ON APR 10	2.66 ON APR 11	0.0 ON JAN 1	2 800	1969
1970	1.38 AT 02 57 CST ON APR 30	1.26 ON APR 30	0.0 ON JAN 1	2 510	1970
1971	1.23 AT 06 37 CST ON JUN 10	1.06 ON JUN 10	0.0 ON JAN 1	3 090	1971
1972	3.40 AT 01 43 CST ON APR 17	3.26 ON APR 17	0.0 ON JAN 1	7 150	1972
1973	---	0.0998 ON MAR 19	0.0 ON JAN 1	55.5	1973
1974	---	4.28 B ON APR 21	0.0 ON JAN 1	6 720	1974
1975	2.02 AT 08 11 CST ON MAY 1	1.97 ON MAY 1	0.0 ON JAN 1	7 000	1975
1976	8.67 AT 17 51 CST ON APR 16 *	7.79 ON APR 14 *	0.0 ON MAR 30	16 400	1976
1977	0.153 AT 03 31 CST ON APR 8	0.066 ON APR 8	0.0 ON JAN 1	103	1977
1978	---	0.4088 ON APR 7	0.0 ON JAN 1	563	1978
1979	4.23 AT 00 00 CST ON APR 25	4.14 B ON APR 24	0.0 ON JAN 1	10 200	1979
1980	---	0.3108 ON APR 9	0.0 ON JAN 1	79.7	1980
1981	---	0.014 ON JUN 26	0.0 ON JAN 1	82.2	1981
1982	---	0.586 ON JUL 29	0.0 ON JAN 1	802	1982
1983	2.77 AT 12 00 CST ON APR 24	2.76 ON APR 24	0.0 ON JAN 1	2 670	1983
1984	0.139 AT 07 28 CST ON JUN 23	0.081 ON JUN 23	0.0 ON JAN 1	34.8	1984
1985	2.45 B AT 22 10 CST ON APR 8	1.15 B ON APR 9	0.0 ON JAN 1	1 060	1985
1986	5.39 AT 19 07 CST ON APR 3	4.54 B ON APR 2	0.0 ON JAN 1	9 240	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 920	MEAN

OAK RIVER NEAR BRADWARDINE - STATION NO 05MG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.50	2.30	1.19	0.094	0.015	0.014	0.014	0.018	---	---	---	1966
1967	---	---	0	8.01	2.81	0.492	0.006	0.002	0	0.007	---	---	---	1967
1968	---	---	2.48	0.895	0.037	0	0	0	0	---	---	---	---	1968
1969	0	0	0	16.4	1.14	0.250	0.922	0.339	0.046	0.102	0.203	0.030	1.60	1969
1970	0.004	0.003	0.003	6.69	3.37	0.504	0.172	0.028	0.007	0.022	0.043	0.003	0.902	1970
1971	0	0	0.015	1.77	0.310	3.84	1.73	0.303	0.063	0.159	0.084	0.014	0.888	1971
1972	0.001	0.001	1.71	8.19	2.65	0.896	0.126	0.016	0.001	0.004	0.003	0	0.864	1972
1973	0	0	0.346	0.054	0.048	0.051	0.008	0.002	0	0.035	0.011	0.002	0.047	1973
1974	0	0	0	9.63	2.54	0.595	0.011	0.008	0.024	0.015	0.012	0.003	1.06	1974
1975	0.002	0.006	0.007	1.78	3.67	0.851	0.200	0.203	0.398	0.321	0.305	0.091	1.16	1975
1976	0.057	0.047	0.052	21.3	3.95	1.26	0.400	0.047	0.018	0.009	0.009	0.001	2.24	1976
1977	0.003	0.004	0.041	0.098	0.114	0.050	0.045	0.003	0.008	0.008	0.012	0.003	0.033	1977
1978	0.003	0.003	0.665	2.14	0.240	0.034	0.008	0.006	0	0.002	0.003	0.003	0.258	1978
1979	0.003	0.003	0.003	8.19	3.25	0.879	0.214	0.018	0.001	0.001	0.001	0.001	1.04	1979
1980	0.001	0.001	0.002	0.433	0.007	0.001	0	0.001	0	0.002	0.002	0.001	0.037	1980
1981	0.001	0.012	0.138	0.032	0.004	0.007	0.006	0.006	0.012	0.001	0.001	0.002	0.019	1981
1982	0	0	0.366	2.61	0.134	0.010	0.004	0	0	0.006	0.002	0	0.258	1982
1983	0	0	0.003	8.67	1.11	0.048	0.042	0.005	0.008	0.002	0.002	0.002	0.816	1983
MEAN	0.005	0.005	0.407	5.73	1.48	0.553	0.217	0.068	0.033	0.040	0.046	0.010	0.741	MEAN

LOCATION - LAT 49 55 30 N DRAINAGE AREA 1 850 km^2
LONG 100 27 46 W REGULATED

OAK RIVER NEAR BRADWARDINE - STATION NO 05MG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	10.2 ON APR 1	0.0 B ON MAR 1 *	---	1966
1967	19.0 AT 14 00 CST ON APR 15	18.4 ON APR 15	0.0 B ON MAR 1	---	1967
1968	---	12.8 B ON MAR 28	0.0 B ON MAR 1	---	1968
1969	---	87.5 B ON APR 12 *	0.0 B ON JAN 1	50 600	1969
1970	---	16.5 B ON APR 12	0.0 B ON DEC 20	28 400	1970
1971	27.5 AT 16 00 CST ON JUN 15	22.9 ON JUN 15	0.0 B ON JAN 1	21 700	1971
1972	---	15.7 ON APR 16	0.0 ON AUG 31	30 500	1972
1973	---	1.13 B ON MAR 13	0.0 B ON JAN 1	1 480	1973
1974	---	35.6 B ON APR 18	0.0 B ON JAN 11	33 500	1974
1975	---	34.5 A ON APR 29	0.0018 ON JAN 1	36 500	1975
1976	46.7 AT 19 22 CST ON APR 10 *	45.3 ON APR 10	0.0018 ON NOV 30	70 700	1976
1977	0.657 AT 10 00 CST ON MAY 28	0.348 ON MAY 23	0.0 ON AUG 17	1 030	1977
1978	10.3 AT 03 28 CST ON APR 7	7.70 ON APR 7	0.0 ON JUL 14	8 130	1978
1979	31.6 AT 05 40 CST ON APR 22	30.8 ON APR 21	0.0 ON AUG 25	32 900	1979
1980	---	1.89 B ON APR 7	0.0 ON JUN 10	1 170	1980
1981	0.425 AT 11 33 CST ON JUL 7	0.2868 ON MAR 21	0.0 B ON FEB 7	587	1981
1982	11.7 B AT 03 44 CST ON APR 13	10.4 B ON APR 13	0.0 B ON JAN 1	8 180	1982
1983	26.0 B AT 04 25 CST ON APR 10	23.5 B ON APR 10	0.0 B ON JAN 1	25 800	1983
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		23 400	MEAN

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.083	0.140	0.023	0.004	0	0	0	---	---	---	1969
1970	---	---	0	0.082	0.854	0.909	0.100	0.023	0.035	0.024	---	---	---	1970
1971	---	---	0	0.020	0.083	0.126	0.703	0.376	0.086	0.023	---	---	---	1971
1972	0	0	0	0.512	2.14	0.819	0.143	0.029	0	0	0	0	0.305	1972
1973	0	0	0.001	0.014	0.001	0	0	0	0	0	0	0	0.001	1973
1974	0	0	0	0.041	0.555	0.470	0.065	0.011	0	0	0	0	0.095	1974
1975	0	0	0	0.038	0.432	0.548	0.121	0.084	0.108	0.201	0.254	0.152	0.180	1975
1976	0.082	0.084	0.082	3.42	2.03	0.791	0.274	0.136	0.055	0.035	0.006	0	0.577	1976
MEAN	0.016	0.013	0.008	0.521	0.777	0.461	0.176	0.080	0.034	0.035	0.052	0.030	0.228	MEAN

LOCATION - LAT 50 18 35 N LONG 100 36 00 W DRAINAGE AREA 443 km² REGULATED

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	0.280 ON APR 15	0B ON MAR 1 *	---	1969
1970	---	1.10 ON MAY 15	0B ON MAR 1	---	1970
1971	---	0.847 ON JUL 19	0B ON MAR 1	---	1971
1972	---	2.45 ON MAY 5	0B ON JAN 1	9 850	1972
1973	---	0.026 ON APR 14	0B ON JAN 1	44.3	1973
1974	---	0.838 ON MAY 23	0B ON JAN 1	3 020	1974
1975	---	0.742 ON MAY 26	0B ON JAN 1	5 060	1975
1976	---	7.42 ON APR 24 *	0B ON NOV 22	18 200	1976
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 180	MEAN

OAK RIVER NEAR RIVERS - STATION NO. 05MG004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.307	0.029	0	0	0	0	0	0	---	---	---	1959
1960	---	---	0	3.38	0.334	0.094	0	0	0	0	---	---	---	1960
1961	---	---	0	0.117	0.009	0	0	0	0	0	---	---	---	1961
1962	---	---	0	1.01	0.029	0	0	0	0	0	---	---	---	1962
1963	---	---	0.918	0.475	0.023	0.885	0.106	0.007	0.002	0	---	---	---	1963
1964	---	---	0	1.56	0.287	0.006	0	0	0.004	0.001	---	---	---	1964
1965	---	---	0	3.39	0.072	0.036	0.112	0.003	0.008	0.007	---	---	---	1965
1966	---	---	0.835	0.855	0.376	0.006	0	0	0	0	---	---	---	1966
1967	---	---	0	4.84	1.21	0.088	0	0	0	0	---	---	---	1967
1968	---	---	0.833	0.486	0.009	0.001	0	0.001	0	0	---	---	---	1968
1969	0	0	0	7.40	0.321	0.043	0.298	0.029	0.005	0.005	0.004	0	0.586	1969
1970	0	0	0	2.81	2.06	0.382	0.283	0.024	0.019	0.084	0.058	0	0.457	1970
1971	0	0	0.002	0.570	0.163	2.41	1.20	0.288	0.089	0.095	0.026	0.003	0.403	1971
1972	0	0	0.210	3.28	2.12	0.795	0.100	0.007	0	0	0	0	0.541	1972
1973	0	0	0.093	0.011	0.012	0.004	0	0	0	0	0	0	0.010	1973
1974	0	0	0	4.76	1.27	0.443	0.031	0	0	0	0	0	0.538	1974
1975	0	0	0	2.28	1.31	0.482	0.101	0.204	0.181	0.171	0.205	0.053	0.413	1975
1976	0.028	0.023	0.029	9.09	2.82	0.840	0.246	0.041	0.008	0	0	0	1.08	1976
1977	0	0	0.013	0.025	0.052	0.015	0.007	0	0.001	0.001	0.001	0.001	0.010	1977
1978	0.001	0.001	0.054	0.763	0.044	0.001	0	0	0	0	0	0	0.071	1978
1979	0	0	0	4.83	1.45	0.774	0.281	0.054	0.002	0.001	0	0	0.813	1979
1980	0	0	0	0.144	0.007	0.003	0	0	0	0	0	0	0.013	1980
1981	0	0.001	0.079	0.022	0	0.004	0.001	0	0	0	0	0	0.009	1981
1982	0	0	0.036	0.804	0.044	0.001	0	0	0	0	0	0	0.081	1982
1984	0	0	0.002	0	0	0.015	0	0	0	0	0	0	0.001	1984
1985	0	0	0.104	0.833	0.005	0	0	0	0	0	0	0	0.078	1985
1986	0	0	0.640	3.25	2.19	0.218	0.074	0.001	0	0	0	0	0.532	1986
MEAN	0.002	0.001	0.150	2.11	0.801	0.279	0.104	0.024	0.012	0.013	0.017	0.003	0.325	MEAN

LOCATION - LAT 50 01 30 N LONG 100 23 35 W DRAINAGE AREA 1 180 km² REGULATED

OAK RIVER NEAR RIVERS - STATION NO 05MG004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.04 ON MAR 28	0.0 ON MAR 1 *	---	1959
1960	---	13.3 ON APR 13	0.0 ON MAR 1	---	1960
1961	---	0.595 ON APR 10	0.0 ON MAR 1	---	1961
1962	---	5.92 ON APR 19	0.0 ON MAR 1	---	1962
1963	---	6.71 ON JUN 10	0.0 ON MAR 1	---	1963
1964	---	5.07 ON APR 15	0.0 ON MAR 1	---	1964
1965	---	12.7 ON APR 15	0.0 ON MAR 1	---	1965
1966	---	4.64 B ON APR 2	0.0 ON MAR 1	---	1966
1967	12.7 AT 19:00 CST ON APR 14	11.8 ON APR 14	0.0 ON MAR 1	---	1967
1968	---	7.93 B ON MAR 27	0.0 ON MAR 1	---	1968
1969	---	35.1 A ON APR 12 *	0.0 ON JAN 1	21 100	1969
1970	9.09 AT 05:51 CST ON APR 29	8.01 ON APR 30	0.0 ON JAN 1	14 400	1970
1971	7.53 AT 13:15 CST ON JUN 15	6.37 ON JUN 15	0.0 ON JAN 1	12 700	1971
1972	12.1 AT 15:20 CST ON APR 15	10.3 ON APR 16	0.0 ON JAN 14	17 100	1972
1973	---	0.2758 ON MAR 13	0.0 ON JAN 1	320	1973
1974	---	19.3 ON APR 18	0.0 ON JAN 1	16 800	1974
1975	12.2 AT 01:00 CST ON APR 29	10.3 ON APR 29	0.0 ON JAN 1	13 000	1975
1976	---	23.4 B ON APR 10	0 ON SEP 17	34 300	1976
1977	0.515 AT 08:31 CST ON MAY 21	0.340 ON MAY 21	0.0 ON JAN 1	310	1977
1978	4.02 B AT 20:20 CST ON APR 5	3.09 B ON APR 5	0.0 ON FEB 25	2 250	1978
1979	41.0 AT 11:58 CST ON APR 21 *	33.7 ON APR 21	0.0 ON JAN 1	19 300	1979
1980	---	0.5878 ON APR 7	0.0 ON JAN 1	400	1980
1981	0.554 AT 11:07 CST ON MAR 19	0.293 ON MAR 19	0.0 ON JAN 1	281	1981
1982	4.37 AT 15:24 CST ON APR 14	2.84 ON APR 14	0.0 ON JAN 1	2 560	1982
1984	0.299 AT 11:09 CST ON JUN 24	0.183 ON JUN 24	0.0 ON JAN 1	46.2	1984
1985	3.38 B AT 23:11 CST ON APR 5	2.43 B ON APR 5	0.0 ON JAN 1	2 450	1985
1986	14.4 AT 18:42 CST ON APR 1	11.7 ON APR 1	0.0 ON JAN 1	15 800	1986
				10 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	4 40	3 82	2 69	---	1912
1913	2 18	0.906	0 057	9 51	3 00	2 34	3 08	0 477	0 205	0 387	0 300	0 142	2 36	1913
1914	0 057	0	0 028	4 25	6 49	0 488	0 397	0 049	0 097	0 248	0 163	0 030	1 50	1914
1915	0	0	0 057	1 95	1 27	1 28	1 11	0 239	0 622	1 03	0 835	0 113	0 939	1915
1916	---	---	---	3 66	3 89	9 87	2 06	0 308	0 175	0 600	0 550	---	---	1916
1917	---	---	---	1 14	4 73	4 07	2 17	0 313	0 257	0 309	0 483	---	---	1917
1918	---	---	1 56	3 10	3 35	1 54	0 718	0 533	0 183	0 288	0 679	---	1 42	1918
1919	---	---	---	---	1 92	0 343	0 626	0 087	0 222	0 397	---	---	---	1919
1920	---	---	---	---	8 32	1 41	0 382	0 097	0 145	0 278	---	---	---	1920
1921	---	---	---	---	5 77	1 81	---	---	---	---	---	---	---	1921
1922	---	---	---	10.2	6 44	1 62	1 25	1 05	0 425	---	---	---	---	1922
1923	---	---	---	---	10 1	7 35	1 73	0 507	0 173	0 427	---	---	---	1923
1924	---	---	---	---	5 83	3 33	1 61	0 841	0 215	1 62	---	---	---	1924
1925	---	---	---	7 81	2 90	16 6	3 57	2 33	1 71	2 38	---	---	---	1925
1926	---	---	---	---	1 70	1 21	0 467	0 217	0 842	2 75	---	---	---	1926
1927	---	---	---	---	13 0	4 32	3 79	2 06	0 786	0 950	---	---	---	1927
1928	---	---	---	---	2 59	8 34	2 02	0 801	0 230	0 333	---	---	---	1928
1929	---	---	---	---	2 07	1 77	0 436	0 098	0 094	0 174	---	---	---	1929
1930	---	---	---	---	3 57	0 999	0 475	0 076	0 076	---	---	---	---	1930
1948	---	---	---	---	7 26	0 980	2 83	1 46	0 348	0 294	---	---	---	1948
1949	---	---	---	---	2 17	2 42	3 92	0 707	0 248	0 717	---	---	---	1949
1950	---	---	---	2 40	14 8	4 88	4 10	0 800	0 597	0 732	---	---	---	1950
1951	---	---	---	6 82	4 04	1 67	0 686	0 554	0 988	1 80	---	---	---	1951
1952	---	---	0.031	6 82	1 76	0 762	0 337	0 200	1 77	0 720	0 381	---	1 53	1952
1953	---	---	---	3 83	11 7	14 4	4 07	1 57	1 42	1 22	0 889	---	---	1953
1954	---	---	---	2 72	5 95	6 59	3 51	0 714	4 31	2 95	1 10	---	---	1954
1955	---	---	---	8 76	7 90	10 4	1 82	0 149	0 198	0 275	---	---	---	1955
1956	---	---	0 375	2 25	7 93	8 37	5 92	0 562	0 477	0 621	---	---	3 31	1956
1957	---	---	0 471	10.2	4 37	3 34	0 723	0 449	0 632	0 382	---	---	2 55	1957
1958	---	---	0 352	3 38	1 38	0 591	1 27	0 138	0 588	0 325	---	---	1 00	1958
1959	---	---	0 423	3 54	6 22	1 90	0 850	0 107	0 448	1 40	---	---	1 73	1959
1960	---	---	0 159	8 23	9 82	1 74	0 318	0 273	0 143	0 379	---	---	2 62	1960
1961	---	---	0 024	1 12	1 54	0 041	0 021	0	0 009	0 388	---	---	0 383	1961
1962	---	---	0 032	1 17	1 70	1 40	0 205	0 181	0 325	0 352	0 311	---	0 889	1962
1963	---	---	0 828	6 85	3 89	4 00	1 18	0 137	0 710	0 249	---	---	2 19	1963
1964	---	---	0	4 61	3 14	0 388	0 095	0 033	0 014	0 187	---	---	1 06	1964
1965	---	---	0	2 67	7 31	3 96	1 17	0 778	5 18	1 39	---	---	2 79	1965
1966	---	---	1 82	5 90	9 77	2 01	1 28	1 07	0 353	0 390	---	---	2 82	1966
1967	---	---	0 235	3 48	10 3	1 15	0 232	0 173	0 020	0 254	---	---	1 99	1967
1968	---	---	0 401	2 39	2 11	1 10	2 31	2 26	1 13	0 797	---	---	1 55	1968
1969	---	---	0 261	5 04	2 21	9 80	5 19	0 413	0 512	0 754	---	---	2 97	1969
1970	---	---	0 224	2 87	18 6	2 56	1 65	0 211	0 841	0 896	---	---	3 47	1970
1971	---	---	0 187	7 32	1 95	12 0	2 14	0 631	0 254	1 59	---	---	3 21	1971
1972	---	---	0 520	7 34	4 28	0 831	0 225	0 207	0 135	0 198	---	---	1 88	1972
1973	---	---	0 513	0 822	0 817	2 04	0 355	0 875	1 48	1 59	---	---	1 06	1973
1974	---	---	0 014	10.2	15 1	2 30	0 598	0 284	0 616	1 35	---	---	3 40	1974
1975	---	---	0 212	2 98	4 75	4 19	0 994	4 32	18 9	4 19	---	---	5 15	1975
1976	---	---	0 616	13 0	2 42	8 81	0 885	0 285	0 105	0 300	---	---	3 23	1976
1977	---	---	0 285	1 13	1 26	0 588	3 75	0 742	3 44	1 88	---	---	1 83	1977
1978	---	---	0 488	5 82	2 33	1 24	0 844	0 189	0 689	0 917	---	---	1 53	1978
1979	---	---	0 400	5 97	14 2	2 88	0 503	0 228	0 293	0 388	---	---	3 11	1979
1980	---	---	0 227	3 08	0 555	0 197	0 308	1 14	1 03	1 04	---	---	0 940	1980
1981	---	---	0 405	2 33	2 87	2 62	0 304	0 379	0 354	0 878	---	---	1 21	1981
1982	---	---	0 038	5 51	2 18	0 705	0 301	0 210	0 177	1 51	---	---	1 32	1982
1983	---	---	0 116	8 49	4 51	2 21	1 57	0 175	0 310	0 192	---	---	1 93	1983
1984	---	---	0 543	1 70	4 19	2 61	0 376	0 030	0 146	0 882	---	---	1 31	1984
1985	---	---	0 719	5 38	1 59	2 19	0 820	1 88	1 30	2 55	---	---	2 14	1985
1986	---	---	1 82	7 82	14 8	1 08	0 815	0 416	0 401	0 782	---	---	3 80	1986
MEAN	0 745	0 302	0 401	4 99	5 46	3 52	1 50	0 618	1 04	0 986	0 880	0 744	2 10	MEAN

LOCATION - LAT 51 03 55 N
LONG 89 46 44 W

DRAINAGE AREA 342 km²
NATURAL FLOW

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	25.6 ON APR 14	0.0578 ON MAR 1	50 100	1913
1914	---	30.9 ON MAY 6	0.0288 ON MAR 1	31 900	1914
1915	---	5.01 ON APR 12	0.0578 ON MAR 1	19 900	1915
1916	---	44.7 ON JUN 24	---	---	1916
1917	---	15.2 ON JUN 26	---	---	1917
1918	---	15.4 ON MAY 25	0.130 ON AUG 31	30 100	1918
1919	---	---	---	---	1919
1920	---	---	---	---	1920
1921	---	---	---	---	1921
1922	---	22.4 ON MAY 18	---	---	1922
1923	---	56.1 ON MAY 2	---	---	1923
1924	---	14.3 ON APR 28	---	---	1924
1925	---	51.3 ON JUN 24	---	---	1925
1926	---	---	---	---	1926
1927	---	54.4 ON MAY 4	---	---	1927
1928	---	44.5 ON JUN 21	---	---	1928
1929	---	---	0.071 ON AUG 27	---	1929
1930	---	17.3 ON MAY 13	---	---	1930
1948	---	44.2 ON APR 25	---	---	1948
1949	---	26.0 ON JUL 22	---	---	1949
1950	---	68.0 ON MAY 14	---	---	1950
1951	---	37.9 ON APR 28	0.8 ON APR 1 *	---	1951
1952	---	17.3 ON APR 18	0.0288 ON MAR 1	32 400	1952
1953	---	91.7 ON JUN 4	---	---	1953
1954	---	37.4 ON JUN 8	---	---	1954
1955	---	67.4 ON JUN 18	0 ON SEP 3	---	1955
1956	---	40.2 ON JUN 20	0.198 ON AUG 26	70 100	1956
1957	---	57.8 ON APR 25	0.170 ON AUG 21	53 850	1957
1958	---	6.888 ON APR 1	0 ON AUG 12	21 300	1958
1959	---	13.2 ON MAY 4	0.028 ON AUG 6	36 700	1959
1960	---	32.8 ON MAY 27	0.040 ON JUL 28	55 500	1960
1961	---	4.848 ON APR 21	0.8 ON MAR 1	8 310	1961
1962	---	5.64 ON MAY 31	0.8 ON MAR 1	14 200	1962
1963	---	20.7 ON APR 8	0.8 ON MAR 1	46 300	1963
1964	---	17.5 ON APR 26	0.8 ON MAR 1	22 200	1964
1965	---	24.1 ON JUN 3	0.8 ON MAR 1	59 200	1965
1966	---	34.0 ON MAY 5	0.003 ON SEP 17	59 300	1966
1967	---	18.0 ON MAY 7	0.011 ON SEP 7	42 100	1967
1968	---	12.0 ON JUL 2	0.0858 ON MAR 1	33 100	1968
1969	---	74.2 ON JUN 27	0.108 ON SEP 19	63 000	1969
1970	---	63.1 ON MAY 8	0.085 ON AUG 24	73 500	1970
1971	---	85.2 ON JUN 10	0.119 ON SEP 25	68 000	1971
1972	---	20.9 ON APR 26	0.082 ON SEP 11	35 500	1972
1973	---	11.3 ON JUN 21	0.031 ON JUL 24	22 400	1973
1974	---	47.0 ON APR 27	0.0148 ON MAR 1	80 600	1974
1975	328 AT 15 13 CST ON SEP 19 *	211 ON SEP 19 *	0.113 ON JUL 30	109 000	1975
1976	---	68.0 ON JUN 14	0.040 ON SEP 12	68 400	1976
1977	---	40.5 ON JUL 12	0.071 ON JUN 11	34 500	1977
1978	---	15.5 A ON APR 27	0.102 ON AUG 13	32 300	1978
1979	48.5 AT 13 35 CST ON MAY 17	45.3 ON MAY 17	0.138 ON AUG 31	65 800	1979
1980	8.108 AT 09 22 CST ON APR 19	7.17 ON APR 21	0.087 ON JUN 26	19 900	1980
1981	12.5 AT 14 40 CST ON JUN 18	10.0 ON JUN 18	0.066 ON JUL 14	25 600	1981
1982	---	16.6 B ON APR 15	0 B ON MAR 1	27 900	1982
1983	32.3 B AT 03 00 CST ON APR 25	27.6 ON APR 26	0.052A ON OCT 19	40 900	1983
1984	16.0 AT 20 37 CST ON JUN 23	13.3 ON JUN 24	0.007 ON SEP 4	27 700	1984
1985	18.9 AT 09 25 CST ON APR 21	17.0 ON APR 21	0.0048 ON MAR 14	45 200	1985
1986	123 AT 08 16 CST ON MAY 6	108 ON MAY 6	0.114 ON SEP 9	74 100	1986
				44 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	10.0	6.80	4.82	8.11	85.3	101	51.7	35.5	42.9	48.1	25.4	14.3	34.6	1979
1980	6.82	3.52	2.80	27.2	49.2	34.9	37.6	65.6	102	79.8	31.7	22.5	38.7	1980
1981	17.6	12.2	8.53	6.32	103	49.9	28.4	24.8	13.1	24.9	17.2	4.82	26.1	1981
1982	1.75	1.63	1.58	12.8	188	77.8	53.1	63.7	56.3	60.5	33.1	24.5	48.3	1982
1983	19.0	13.8	8.34	7.60	118	97.5	54.9	45.9	88.6	60.0	35.4	18.1	45.8	1983
1984	9.98	5.31	4.16	57.9	87.1	56.5	23.9	15.2	18.7	21.6	11.9	5.94	26.5	1984
1985	3.13	2.01	1.68	84.9	148	108	82.3	43.6	26.2	19.5	8.34	1.84	44.4	1985
1986	0.897	0.551	0.462	3.49	202	82.0	116	75.7	50.9	39.8	26.4	15.8	51.7	1986
MEAN	8.85	6.75	4.05	26.0	120	76.0	55.0	46.3	47.3	44.3	23.7	13.5	38.5	MEAN

LOCATION - LAT 55 59 45 N LONG 97 21 23 W DRAINAGE AREA, 6 130 km^2 NATURAL FLOW

ODEI RIVER NEAR THOMPSON - STATION NO 05TG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	135A AT 17 55 CST ON JUN 4	134A ON JUN 4	3 50 E ON APR 13	1 090 000	1979
1980	143 AT 22 45 CST ON AUG 28	143 ON AUG 29	2 85 B ON MAR 25	1 220 000	1980
1981	---	225E ON MAY 18	2 30 B ON DEC 31	821 000	1981
1982	---	352E ON MAY 3 *	1 52 E ON APR 12	1 520 000	1982
1983	201 AT 12 00 CST ON MAY 31	201 ON MAY 31	4 54 B ON APR 15	1 440 000	1983
1984	170 AT 21 15 CST ON APR 24	187 ON APR 24	3 53 B ON APR 2	838 000	1984
1985	---				
1986	311 AT 18 20 CST ON MAY 18 *	350E ON APR 27	1 15 B ON DEC 31	1 400 000	1985
		310 ON MAY 18	0 460B ON MAR 10 *	1 530 000	1986
				1 240 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO 05MJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.004	1.25	0.256	0.025	0.010	0	0	0	---	---	0.190	1978
1983	---	---	0.129	1.08	0	0.702	0.077	0.002	0	0	---	---	0.244	1983
1984	---	---	0.024	0.058	0.005	0.072	0.005	0	0.004	0.011	---	---	0.022	1984
1985	---	---	0.381	0.432	0.015	0.008	0	0.372	0.043	0.002	---	---	0.157	1985
1986	---	---	0.535	0.910	0.412	0.001	0.010	0	0	0	---	---	0.233	1986
MEAN	---	---	0.215	0.746	0.138	0.182	0.020	0.076	0.009	0.003	---	---	0.189	MEAN

LOCATION - LAT 49 55 00 N, LONG 97 12 59 W
DRAINAGE AREA 75.1 km^2
NATURAL FLOW

OMANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO 05MJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	---	4.67 B ON APR 8	0 ON MAY 3 *	4 030	1978
1983	10.1 AT 12 00 CST ON JUN 22 *	7.41 ON JUN 22 *	0B ON MAR 1	5 170	1983
1984	1.19 AT 19 55 CST ON JUN 21	0.362B ON APR 2	0B ON MAR 1	489	1984
1985	---	2.51 B ON MAR 29	0B ON MAR 1	3 320	1985
1986	5.01 AT 04 04 CST ON MAR 31	5.75 ON MAR 31	0B ON MAR 1	4 920	1986
				3 580	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMANDS CREEK NEAR METRO ROUTE 90 - STATION NO 05MJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	1.37	0.340	0.023	0.004	0	0.011	0	---	---	0.219	1978
1983	---	---	0.221	1.13	0.001	0.718	0.025	0.008	0.001	0.005	---	---	0.280	1983
1984	---	---	0.043	0.070	0.006	0.210	0.007	0.002	0.009	0.025	---	---	0.048	1984
1985	---	---	0.591	0.433	0.023	0.034	0.015	0.478	0.040	0.027	---	---	0.206	1985
1986	---	---	0.584	0.864	0.432	0.011	0.049	0.023	0.019	0.004	---	---	0.249	1986
MEAN	---	---	0.295	0.773	0.180	0.199	0.020	0.102	0.016	0.012	---	---	0.196	MEAN

LOCATION - LAT 49 54 43 N, LONG 97 12 20 W
DRAINAGE AREA 80.5 km^2
NATURAL FLOW

OMANDS CREEK NEAR METRO ROUTE 90 - STATION NO 05MJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	5.89 AT 00 59 CST ON MAY 26	4.70 ON MAY 26	0B ON MAR 1 *	4 830	1978
1983	9.85 AT 12 51 CST ON JUN 22 *	6.52 ON JUN 22 *	0B ON MAR 1	5 500	1983
1984	3.16 AT 22 35 CST ON JUN 21	1.38 ON JUN 22	0B ON MAR 1	972	1984
1985	3.75 AT 10 56 CST ON AUG 17	3.018 ON MAR 29	0B ON MAR 1	4 350	1985
1986	5.838 AT 08 59 CST ON MAR 31	5.508 ON MAR 31	0B ON MAR 1	5 270	1986
				4 140	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO OSUB011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	1 160	1 120	1 050	---	---	---	---	1971
1972	764	765	826	925	1 180	1 250	1 180	1 110	1 020	950	880	707	980	1972
1973	632	625	685	788	---	---	---	---	---	---	---	---	---	1973
MEAN	698	695	756	847	1 180	1 250	1 170	1 120	1 040	950	880	707	980	MEAN

LOCATION - LAT 54 25 30 N
LONG 98 03 00 W NATURAL FLOW

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO OSUB011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	1 300 AT 05 13 CST ON JUN 13 *	1 280 ON MAY 21 *	648B ON DEC 31 *	30 300 000	1972
1973	---	---	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 300 000	MEAN

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO OSLD001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	52 9	72 1	36 5	24 5	38 4	---	---	---	---	1954
1955	---	---	---	---	71 0	22 2	12 0	8 04	2 89	2 77	---	---	---	1955
1956	---	---	0 054	11 1	74 0	57 1	30 9	17 9	9 11	6 86	---	---	25 9	1956
1957	---	---	0	13 7	45 2	16 7	4 75	0 813	1 70	1 19	---	---	10 5	1957
1958	---	---	0 005	21 3	13 5	4 40	6 82	1 71	3 04	8 87	---	---	7 58	1958
1959	---	---	0 578	14 7	19 2	10 7	16 9	9 21	24 5	17 9	---	---	14 2	1959
1960	---	---	0 007	34 6	52 0	30 9	11 6	3 78	1 33	0 733	---	---	16 8	1960
1961	---	---	0 062	14 5	11 9	3 20	0 107	0 020	0 015	0 014	---	---	3 70	1961
1962	---	---	0	3 98	13 1	5 56	0 673	0 125	0 719	0 922	---	---	3 14	1962
1963	---	---	0	7 04	4 50	4 53	6 51	1 83	2 67	1 85	---	---	3 56	1963
1964	---	---	0 094	7 99	27 4	4 21	8 01	9 40	17 6	13 2	---	---	11 0	1964
1965	---	---	0 076	17 4	39 3	55 6	25 9	9 52	13 1	17 6	---	---	22 2	1965
1966	---	---	0 318	14 5	16 3	23 2	34 5	17 0	8 22	6 87	---	---	15 1	1966
1967	---	---	0 577	0 881	52 5	27 3	5 25	1 96	1 08	3 12	---	---	11 6	1967
1968	---	---	0 697	8 29	10 1	36 2	43 5	14 5	10 5	7 79	---	---	16 4	1968
1969	---	---	0 323	25 3	17 5	6 00	0 651	0 287	0 273	11 1	---	---	7 85	1969
1970	---	---	0 128	4 86	35 7	22 6	86 9	20 1	6 01	11 3	---	---	21 1	1970
1971	---	---	0 232	30 7	24 5	6 80	2 08	2 12	0 517	4 41	---	---	8 85	1971
1972	---	---	0 093	13 0	47 8	14 0	4 22	1 50	0 544	0 917	---	---	10 3	1972
1973	---	---	0	6 80	18 5	37 3	21 1	4 56	3 98	5 82	---	---	12 2	1973
1974	---	---	0 500	21 4	70 3	42 6	7 40	2 63	5 01	10 1	---	---	19 9	1974
1975	---	---	0 713	9 75	41 8	43 4	12 3	7 46	9 15	12 3	---	---	17 1	1975
1976	---	---	0 554	8 65	5 53	21 3	25 2	9 18	3 25	1 35	---	---	9 35	1976
1977	---	---	0	4 94	7 41	3 74	3 79	15 0	119 4	13 8	---	---	8 50	1977
1978	---	---	0 716	15 3	38 9	13 7	6 40	8 35	110 7	15 0	---	---	13 6	1978
1979	---	---	0	17 7	82 3	51 9	9 15	2 15	1 64	2 31	---	---	18 3	1979
1980	---	---	0 005	4 85	2 50	0 410	0 770	1 14	1 36	2 91	---	---	1 74	1980
1981	---	---	0 349	6 83	9 12	2 79	2 43	2 03	0 679	15 6	---	---	4 89	1981
1982	---	---	0 024	7 85	11 6	18 8	12 6	4 46	3 08	8 08	---	---	8 30	1982
1983	---	---	0 108	16 1	43 7	41 7	38 6	11 0	6 97	7 22	---	---	20 6	1983
1984	---	---	0 241	30 5	53 4	43 2	7 48	0 731	0 491	3 74	---	---	17 4	1984
1985	---	---	0 070	18 9	22 8	12 5	7 37	10 5	7 50	7 10	---	---	10 9	1985
1986	---	---	0 175	9 96	24 6	11 4	5 80	3 88	1 14	4 25	---	---	7 63	1986
MEAN	---	---	0 216	13 7	31 6	23 3	14 5	6 88	6 56	7 13	---	---	12 3	MEAN

LOCATION - LAT 53 09 15 N DRAINAGE AREA 3 530 km^2
LONG 101 06 30 W NATURAL FLOW

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO 05LD001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	---	---	---	1955
1956	---	88 9 ON MAY 15	0 0288 ON APR 1	547 000	1956
1957	---	55 2 ON APR 29	0 B ON MAR 1 *	222 000	1957
1958	---	36 0 ON APR 7	0 B ON MAR 1	180 000	1958
1959	---	36 0 ON JUL 1	0 B ON MAR 1	300 000	1959
1960	---	119 B ON APR 22 *	0 B ON MAR 1	355 000	1960
1961	---	27 2 ON APR 26	0 014 ON SEP 3	78 400	1961
1962	---	26 3 ON APR 29	0 B ON MAR 1	86 600	1962
1963	---	19 2 B ON APR 18	0 B ON MAR 1	75 400	1963
1964	---	56 6 ON MAY 12	0 0859 ON MAR 1	233 000	1964
1965	---	80 3 ON JUN 10	0 0768 ON MAR 1	470 000	1965
1966	---	47 0 ON JUL 21	0 2888 ON MAR 1	320 000	1966
1967	---	78 2 ON MAY 12	0 4028 ON APR 16	246 000	1967
1968	---	55 8 ON JUN 1	0 0258 ON MAR 21	348 000	1968
1969	---	53 5 B ON APR 14	0 037E ON SEP 15	182 000	1969
1970	---	80 9 ON JUL 16	0 1058 ON APR 7	446 000	1970
1971	---	78 7 B ON APR 19	0 0984 ON SEP 16	187 000	1971
1972	---	56 9 E ON APR 29	0 0718 ON MAR 1	217 000	1972
1973	47 0 AT 02 31 CST ON JUN 22	47 0 ON JUN 22	0 B ON MAR 1	258 000	1973
1974	85 8 AT 00 11 CST ON APR 30 *	85 5 ON APR 29	0 3988 ON MAR 29	422 000	1974
1975	55 2 AT 10 22 CST ON JUN 10	54 7 ON JUN 11	0 4538 ON APR 6	361 000	1975
1976	---	38 9 ON JUN 29	0 5448 ON MAR 1	198 000	1976
1977	24 7 AT 12 43 CST ON SEP 18	24 6 ON SEP 18	0 B ON MAR 1	180 000	1977
1978	89 1 AT 04 16 CST ON MAY 1	68 5 ON MAY 1	0 6918 ON MAR 1	288 000	1978
1979	73 8 AT 19 00 CST ON APR 29	73 6 R ON APR 29	0 B ON MAR 1	387 000	1979
1980	---	8 918 ON APR 17	0 B ON MAR 1	36 800	1980
1981	28 7 AT 23 59 CST ON OCT 31	26 1 ON OCT 31	0 B ON MAR 1	106 000	1981
1982	27 1 AT 20 12 CST ON JUN 1	26 8 ON JUN 2	0 0178 ON MAR 29	176 000	1982
1983	---	58 5 B ON APR 24	0 0188 ON MAR 10	437 000	1983
1984	63 7 AT 16 50 CST ON MAY 24	63 0 ON MAY 25	0 0128 ON MAR 21	368 000	1984
1985	29 3 AT 17 34 CST ON MAY 15	28 7 ON MAY 15	0 0308 ON MAR 12	231 000	1985
1986	30 5 AT 18 22 CST ON MAY 19	30 2 ON MAY 20	0 0048 ON MAR 8	162 000	1986
				259 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

OXTAIL CREEK NEAR CYPRESS RIVER - STATION NO 05MH012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	---	---	0	0 828	1 02	0 170	0 004	0	0	0	---	---	0 251	1975
1976	---	---	0	8 77	0 594	0 066	0 022	0	0	0	---	---	1 28	1976
1977	---	---	0	0	0 071	0 002	0	0	0	0	---	---	0 009	1977
1978	---	---	0 014	1 32	0 213	0 091	0 021	0	0	0	---	---	0 205	1978
1979	---	---	0	5 22	2 27	0 243	0 014	0	0	0	---	---	0 957	1979
1980	---	---	0	0 230	0 056	0	0	0	0	0	---	---	0 035	1980
1981	---	---	0 076	0 013	0 027	0 026	0 010	0 038	0 050	0 033	---	---	0 034	1981
1982	---	---	0 124	1 19	0 171	0 073	0 022	0 004	0	0	---	---	0 196	1982
1983	---	---	0 186	2 48	0 257	0 092	0 009	0	0	0	---	---	0 372	1983
1984	---	---	0 095	0 078	0 144	0 068	0 017	0	0	0 001	---	---	0 050	1984
1985	---	---	1 42	0 453	0 039	0 003	0 001	0 024	0 001	0 002	---	---	0 244	1985
MEAN	---	---	0 174	1 96	0 442	0 076	0 011	0 006	0 005	0 003	---	---	0 330	MEAN

LOCATION - LAT 49 28 40 N LONG 99 09 20 W
DRAINAGE AREA 434 km^2
NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1975 HAVE NOT BEEN PUBLISHED

OXTAIL CREEK NEAR CYPRESS RIVER - STATION NO 05MH012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1975	---	3 40 ON MAY 3	0B ON MAR 1 *	5 320	1975
1976	---	26 0 B ON APR 8 *	0B ON MAR 1	27 100	1976
1977	---	0 258 ON MAY 21	0B ON MAR 1	197	1977
1978	---	3 99 B ON APR 7	0B ON MAR 1	4 330	1978
1979	---	26 0 ON APR 22	0B ON MAR 1	20 200	1979
1980	0 856 AT 00 00 CST ON APR 7	0 7468 ON APR 8	0B ON MAR 1	746	1980
1981	0 390 AT 12 06 CST ON MAR 18	0 3268 ON MAR 18	0B ON MAR 4	725	1981
1982	---	2 06 B ON APR 16	0B ON MAR 1	4 150	1982
1983	8 20 B AT 17 58 CST ON APR 5 *	7 12 B ON APR 5	0B ON MAR 1	7 870	1983
1984	---	0 7848 ON MAR 25	0B ON MAR 1	1 070	1984
1985	6 81 B AT 13 18 CST ON MAR 23	6 23 B ON MAR 23	0B ON MAR 1	5 180	1985
				6 990	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OXTAIL CREEK NEAR GLENBORO - STATION NO 05MH014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	1.19	1.53	1.73	0.172	0.258	0.027	0.003	0.004	---	---	0.616	1986
MEAN	---	---	1.19	1.53	1.73	0.172	0.258	0.027	0.003	0.004	---	---	0.616	MEAN

LOCATION - LAT 49 28 22 N LONG 99 10 16 W
DRAINAGE AREA 494 km²
NATURAL FLOW

OXTAIL CREEK NEAR GLENBORO - STATION NO 05MH014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1986	4.51B AT 09 20 CST ON MAR 24 *	4.02 ON MAR 28 *	0B ON MAR 1 *	13 000	1986
				13 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PACKHORSE CREEK NEAR MCCREARY - STATION NO 05LJ034

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	0.078	0.028	0.023	0.012	---	---	---	---	1960
1961	---	---	---	---	0.254	0.017	0.041	0.017	0.084	---	---	---	---	1961
1962	---	---	---	---	---	0.023	0.005	0.011	0.008	---	---	---	---	1962
1963	---	---	---	---	---	0.308	0.028	0.016	0.015	---	---	---	---	1963
1964	---	---	---	---	0.103	0.031	0.011	0.009	0.011	---	---	---	---	1964
1965	---	---	---	0.096	0.285	0.103	0.043	0.030	0.266	0.033	---	---	0.123	1965
1966	---	---	---	0.158	0.247	0.085	0.032	0.085	0.017	0.031	---	---	0.094	1966
1967	---	---	---	0.240	0.380	0.070	0.026	0.021	0.016	0.037	---	---	0.113	1967
1968	---	---	---	0.116	0.115	0.102	0.119	0.128	0.046	0.042	---	---	0.096	1968
1969	---	---	---	0.294	0.158	0.278	0.282	0.032	0.028	0.016	---	---	0.155	1969
1970	---	---	---	0.067	0.633	0.113	0.081	0.034	0.048	0.062	---	---	0.146	1970
1971	---	---	---	---	0.082	0.358	0.088	0.022	0.036	---	---	---	---	1971
1972	---	---	---	0.296	0.178	0.046	0.018	0.015	0.014	---	---	---	---	1972
1973	---	---	---	0.049	0.081	0.120	0.032	0.039	0.078	0.079	---	---	0.068	1973
1974	---	---	---	0.295	0.353	0.103	0.026	0.021	0.018	0.011	---	---	0.118	1974
1975	---	---	---	---	0.208	0.135	0.025	0.099	---	---	---	---	---	1975
MEAN	---	---	---	0.179	0.237	0.123	0.053	0.038	0.047	0.039	---	---	0.114	MEAN

LOCATION - LAT 50 43 00 N LONG 99 35 00 W
DRAINAGE AREA 9.14 km²
NATURAL FLOW
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

PACKHORSE CREEK NEAR MCCREARY - STATION NO 05LJ034

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	1.42 AT 14 00 CST ON MAY 26	1.30 ON MAY 26	0 ON SEP 18 *	---	1960
1961	---	---	0 ON JUN 7	---	1961
1962	5.95 AT 22 30 CST ON MAY 29	2.45 ON MAY 30	0 ON JUN 11	---	1962
1963	3.48 AT 06 20 CST ON JUN 10	1.38 ON JUN 10	---	---	1963
1964	---	---	---	---	1964
1965	1.92 AT 17 40 CST ON SEP 8	1.47 ON SEP 17	0 8 ON APR 1	2 280	1965
1966	2.42 AT 03 30 CST ON AUG 7	1.30 ON AUG 7	0.011 ON SEP 22	1 740	1966
1967	1.18 AT 18 30 CST ON MAY 14	0.937 ON MAY 7	0.0038 ON APR 1	2 090	1967
1968	1.53 AT 14 30 CST ON JUL 7	0.864E ON MAY 8	0.020 ON JUL 25	1 770	1968
1969	4.87 AT 03 30 CST ON JUN 27	2.77 ON JUN 27	0.011E ON OCT 24	2 850	1969
1970	3.94 AT 17 15 CST ON MAY 7	2.18 ON MAY 7	0.018 ON AUG 25	2 710	1970
1971	---	3.48 ON JUN 6	---	---	1971
1972	---	1.81 B ON APR 26	---	---	1972
1973	1.26 AT 13 00 CST ON JUN 20	0.821 ON JUN 20	0.001 ON JUL 23	1 250	1973
1974	2.57 AT 16 00 CST ON MAY 11	1.91 ON MAY 11	0.001 ON OCT 6	2 180	1974
1975	13.6 AT 18 00 CST ON SEP 18 *	8.78 ON SEP 19 *	---	---	1975
				2 110	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

PANSY DRAIN NEAR SARTO - STATION NO 05QE014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0 113	0 018	0 001	---	---	---	---	---	---	0 033	1978
1979	---	---	0	0 254	0 232	0 133	---	---	---	---	---	---	0 154	1979
1980	---	---	0	0 031	0	0	---	---	---	---	---	---	0 008	1980
1981	---	---	0 001	0	0 003	0	---	---	---	---	---	---	0 001	1981
1982	---	---	0 003	0 141	0 067	0 117	---	---	---	---	---	---	0 081	1982
1983	---	---	0 337	0 340	0 053	0 014	---	---	---	---	---	---	0 333	1983
1984	---	---	0 074	0 010	0 003	0 029	---	---	---	---	---	---	0 029	1984
1985	---	---	0 010	0 005	0 008	0 001	---	---	---	---	---	---	0 007	1985
1986	---	---	0 097	0 435	0 795	0 003	---	---	---	---	---	---	0 334	1986
MEAN	---	---	0 058	0 214	0 131	0 033	---	---	---	---	---	---	0 108	MEAN

LOCATION - LAT 49 23 05 N LONG 96 43 53 W DRAINAGE AREA 29 5 km² NATURAL FLOW

PANSY DRAIN NEAR SARTO - STATION NO 05QE014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	---				
1979	0 816 AT 14 34 CST ON APR 25	0 521 ON APR 9 0 807 ON APR 25	0B ON MAR 1 * 0B ON MAR 1	343 1 620	1978 1979
1980	0 230 AT 11 15 CST ON APR 7	0 1338 ON APR 7	0B ON MAR 1	80 4	1980
1981	0 016 AT 19 05 CST ON MAY 29	0 015 ON MAY 30	0B ON MAR 1	11 0	1981
1982	0 586 AT 18 20 CST ON JUN 10	0 554 ON JUN 10	0B ON MAR 1	855	1982
1983	2 52 B AT 11 26 CST ON APR 6	2 12 B ON APR 5	0B ON MAR 1	3 520	1983
1984	---	1 06 B ON MAR 26	0B ON MAR 1	307	1984
1985	---	0 1008 ON MAR 25	0B ON MAR 1	88 6	1985
1986	2 76 AT 01 17 CST ON MAY 5 *	2 56 ON MAY 5 *	0B ON MAR 1	3 530	1986
				1 150	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PELICAN CREEK NEAR BIRNIE - STATION NO 05LL027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	0 201	0 229	0 051	0 005	0	0	0	---	---	0 081	1974
1975	---	---	0	0 123	0 110	0 079	0 019	0 144	0 242	0 071	---	---	0 088	1975
1976	---	---	0 010	0 328	0 069	0 040	0 013	0	0	0	---	---	0 057	1976
1977	---	---	0	0 010	0 008	0 004	0 002	0	0	0 003	---	---	0 003	1977
1978	---	---	0	0 110	0 061	0 013	0 002	0	0	0 002	---	---	0 023	1978
1979	---	---	0	0 170	0 402	0 089	0 006	0	0	0	---	---	0 083	1979
1980	---	---	0	0 038	0 006	0 001	0	0 047	0 013	0 011	---	---	0 014	1980
1981	---	0 003	0 011	0 050	0 018	0 015	0 001	0	0	0 005	---	---	0 012	1981
1982	---	---	0	0 098	0 067	0 018	0 018	0 015	0 002	0 011	---	---	0 028	1982
1983	---	---	0	0 226	0 128	0 056	0 104	0 004	0	0	---	---	0 085	1983
1984	---	---	0 003	0 022	0 022	0 036	0 010	0 001	0	0 019	---	---	0 014	1984
1985	---	---	0 011	0 085	0 044	0 054	0 012	0 017	0 018	0 047	---	---	0 037	1985
1986	---	---	0 048	0 176	0 223	0 012	0 020	0 003	0 003	0 011	---	---	0 062	1986
MEAN	---	0 003	0 006	0 127	0 107	0 036	0 016	0 018	0 021	0 014	---	---	0 043	MEAN

LOCATION - LAT 50 28 35 N LONG 99 29 05 W DRAINAGE AREA 9 05 km² NATURAL FLOW

PELICAN CREEK NEAR BIRNIE - STATION NO 05LL027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	---				
1975	2 86 AT 09 20 CST ON SEP 19 *	0 805 ON APR 26	0B ON MAR 1 *	1 280	1974
1976	---	1 71 ON SEP 19 *	0B ON MAR 1	2 070	1975
1977	---	0 793 ON APR 17	0 ON JUL 27	1 200	1976
1978	---	0 040 ON MAY 5	0B ON MAR 1	68 7	1977
1979	---	0 249 ON APR 23	0B ON MAR 1	496	1978
		1 81 A ON MAY 18	0B ON MAR 1	1 770	1979
1980	0 594 AT 07 48 CST ON AUG 21	0 419 ON AUG 21	0B ON MAR 1	305	1980
1981	0 135 AT 16 27 CST ON APR 4	0 118 ON APR 2	0 ON JUL 29	264	1981
1982	---	0 3778 ON APR 15	0B ON MAR 1	601	1982
1983	1 92 AT 20 48 CST ON APR 23	0 884 ON APR 24	0B ON MAR 1	1 370	1983
1984	0 745 AT 22 33 CST ON JUN 22	0 293 ON JUN 23	0B ON MAR 1	298	1984
1985	0 325 AT 01 14 CST ON APR 15	0 219 ON APR 15	0B ON MAR 1	786	1985
1986	2 59 E AT 19 50 CST ON MAY 5	1 12 A ON MAY 5	0 ON AUG 24	1 310	1986
				909	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO 05DA010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0.028	1.93	0.065	2.55	0.094	0.789	0.073	0.071	---	---	0.689	1962
1963	---	---	0.329	0.996	0.431	0.984	0.121	0.030	0.017	0.025	---	---	0.363	1963
1964	---	---	0	2.16	0.942	0.380	0.331	0.075	0.088	0.113	---	---	0.507	1964
1965	---	---	0.016	4.19	1.89	0.893	0.548	0.285	0.095	0.057	---	---	0.983	1965
1966	---	---	1.15	1.04	1.18	0.274	0.517	0.057	0.006	0.007	---	---	0.530	1966
1967	---	---	0.052	1.48	0.952	0.204	0.028	0.005	0.002	0.006	---	---	0.339	1967
1968	---	---	0.283	0.356	0.246	0.049	0.035	0.585	1.43	0.240	---	---	0.401	1968
1969	---	---	0	11.7	0.734	0.129	0.808	0.089	0.017	0.027	---	---	1.86	1969
1970	---	---	0	3.33	3.49	0.594	0.110	0.027	0.017	0.029	---	---	0.945	1970
1971	---	---	0	2.08	0.580	0.754	0.747	0.040	0.024	0.334	---	---	0.566	1971
1972	---	---	3.45	4.49	1.28	2.55	0.429	1.07	0.143	0.103	---	---	1.81	1972
1973	---	---	0.573	0.270	0.855	0.941	0.364	0.203	0.242	0.232	---	---	0.480	1973
1974	---	---	0.043	13.1	6.33	0.986	0.108	0.044	0.023	0.031	---	---	2.55	1974
1975	---	---	0.006	9.43	3.77	1.10	0.206	0.045	0.280	0.464	---	---	1.89	1975
1976	---	---	0.083	13.1	0.842	0.200	0.038	0.009	0.004	0.004	---	---	1.76	1976
1977	---	---	0.130	0.254	0.521	0.076	0.098	0.014	0	0.001	---	---	0.137	1977
1978	---	---	0.035	2.16	0.801	0.279	0.218	0.130	0.075	0.024	---	---	0.460	1978
1979	---	---	0	7.33	2.14	0.596	0.037	0.010	0.002	0.001	---	---	1.25	1979
1980	---	---	0.003	1.41	0.098	0.016	0.005	0.111	0.078	0.219	---	---	0.239	1980
1981	---	0.333	0.354	0.220	0.248	0.230	0.120	0.103	0.054	0.052	---	---	0.173	1981
1982	---	---	0.942	4.86	0.711	0.505	0.071	0.007	0.003	0.095	---	---	0.888	1982
1983	---	---	0.824	2.75	0.657	0.173	0.030	0.002	0.001	0.001	---	---	0.550	1983
1984	---	---	0.516	0.675	0.762	0.058	0.011	0.002	0	0.001	---	---	0.253	1984
1985	---	---	3.89	0.813	0.107	0.044	0.037	0.109	0.045	0.073	---	---	0.819	1985
1986	---	---	1.45	1.93	1.81	0.107	0.066	0.071	0.008	0.009	---	---	0.656	1986
MEAN	---	0.333	0.561	3.88	1.24	0.588	0.207	0.156	0.110	0.089	---	---	0.822	MEAN

LOCATION - LAT 48 15 50 N DRAINAGE AREA, 542 km²
LONG 99 27 44 W REGULATED

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.05 AND 0.007 m³/s OCCURRED IN FEB

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO 05DA010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	25.5 ON JUN 16	0 B ON MAR 1 *	14 600	1962
1963	---	5.66 ON JUN 6	0 B ON MAR 1	7 680	1963
1964	---	7.33 B ON APR 11	0 B ON MAR 1	10 700	1964
1965	---	17.4 B ON APR 13	0 B ON MAR 1	20 400	1965
1966	---	2.89 B ON MAR 25	B ON MAR 1	11 200	1966
1967	---	3.17 ON APR 30	0 B ON MAR 1	7 180	1967
1968	---	4.42 ON AUG 27	0 B ON MAR 1	8 500	1968
1969	---	44.7 ON APR 12	0 B ON MAR 1	35 100	1969
1970	---	21.2 ON APR 28	0 B ON MAR 1	20 000	1970
1971	---	6.43 ON APR 11	0 B ON MAR 1	12 000	1971
1972	---	18.0 B ON MAR 17	0 B ON MAR 1	35 600	1972
1973	---	3.94 ON JUN 22	0 B ON MAR 1	9 740	1973
1974	---	52.1 ON APR 22 *	0.006 ON AUG 10	54 100	1974
1975	---	38.5 ON APR 29	0.0088 ON MAR 1	40 100	1975
1976	---	27.9 ON APR 7	0.003 ON SEP 19	37 200	1976
1977	---	2.12 ON MAY 20	B ON AUG 29	2 890	1977
1978	---	5.78 B ON APR 6	B ON AUG 1	9 740	1978
1979	---	45.3 B ON APR 20	0 B ON MAR 1	26 400	1979
1980	---	6.05 B ON APR 4	0.001 ON JUL 29	5 060	1980
1981	---	0.8598 ON MAR 18	0.008 ON AUG 22	3 650	1981
1982	14.3 AT 16 46 CST ON APR 14 *	12.1 ON APR 14	0 B ON MAR 1	18 800	1982
1983	9.338 AT 16 06 CST ON APR 2	6.68 B ON APR 2	0.001 ON AUG 11	11 600	1983
1984	---	3.20 B ON MAR 25	0 B ON MAR 1	5 380	1984
1985	---	17.0 B ON MAR 21	0 B ON MAR 1	13 100	1985
1986	7.50 AT 21 31 CST ON APR 20	6.64 ON APR 20	0 B ON MAR 1	13 900	1986
				17 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO 05DA012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.763	0.821	0.473	1.03	0.074	0.016	0.003	0	---	---	0.395	1963
1964	---	---	0.015	1.58	0.499	0.137	0.247	0.009	0.008	0	---	---	0.310	1964
1965	---	---	0	4.76	1.35	1.04	0.200	0.055	0.051	0.062	---	---	0.928	1965
1966	---	---	1.30	1.22	1.37	0.410	0.715	0.106	0.003	0	---	---	0.641	1966
1967	---	---	0.085	1.05	0.783	0.177	0.035	0.006	0	0	---	---	0.285	1967
1968	---	---	0.299	0.386	0.182	0.052	0.033	0.356	0.489	0.116	---	---	0.236	1968
1969	---	---	0	12.9	1.19	0.275	1.61	0.063	0.018	0.029	---	---	1.88	1969
1970	---	---	0	3.17	3.27	0.302	0.036	0.007	0	0.003	---	---	0.845	1970
1971	---	---	0	2.07	0.487	0.788	0.722	0.023	0.005	0.298	---	---	0.544	1971
1972	---	---	3.21	3.89	1.11	1.89	0.392	0.985	0.093	0.230	---	---	1.47	1972
1973	---	---	0.432	0.295	0.775	0.973	0.299	0.345	0.187	0.233	---	---	0.444	1973
1974	---	---	0.035	12.5	5.41	0.748	0.084	0.058	0.033	0.034	---	---	2.33	1974
1975	---	---	0.020	8.18	3.21	1.05	0.184	0.025	0.300	0.530	---	---	1.67	1975
1976	---	---	0.052	12.8	0.959	0.397	0.035	0.009	0.002	0	---	---	1.73	1976
MEAN	---	---	0.444	4.67	1.50	0.682	0.332	0.147	0.086	0.110	---	---	0.985	MEAN

LOCATION - LAT 48 16 10 N DRAINAGE AREA, 485 km²
LONG 99 34 40 W NATURAL FLOW

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO 05OA012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	5.13 ON JUN 6	0 B ON MAR 1 *	8 370	1963
1964	---	3.408 ON APR 12	0 B ON MAR 1	6 570	1964
1965	---	12.0 B ON APR 13	0 B ON MAR 1	19 600	1965
1966	---	3.008 ON MAR 22	0 ON MAR 1	13 800	1966
1967	---	2.56 ON MAY 4	0 B ON MAR 1	5 620	1967
1968	---	3.48 ON AUG 27	0 B ON MAR 1	4 990	1968
1969	---	58.3 ON APR 11 *	0 B ON MAR 1	41 800	1969
1970	---	20.7 ON APR 27	0 B ON MAR 1	17 900	1970
1971	---	7.938 ON APR 10	0 B ON MAR 1	11 500	1971
1972	---	14.6 B ON MAR 17	0 B ON MAR 1	31 100	1972
1973	---	4.87 ON JUN 21	0 B ON MAR 1	9 400	1973
1974	---	43.9 ON APR 17	0 ON AUG 1	49 400	1974
1975	---	46.2 ON APR 29	0.001 ON AUG 20	35 300	1975
1976	---	33.4 B ON APR 3	0 ON JUL 24	36 600	1976
				20 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER AT NECHE - STATION NO 05DC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1903	---	---	---	---	5.71	4.22	1.71	0.934	0.934	1.13	0.850	0.425	---	1903
1904	0.227	0.113	0.057	42.2	74.8	47.9	23.8	10.9	8.54	6.88	4.81	3.68	18.7	1904
1905	1.67	0.566	5.66	13.6	12.7	13.7	5.84	2.75	2.66	3.37	2.27	0.566	5.46	1905
1906	0.283	0.142	0.057	11.6	5.45	7.69	4.96	3.70	4.17	4.08	2.75	0.425	3.77	1906
1907	0.142	0.057	0.085	4.81	45.3	14.4	4.41	1.54	0.986	1.56	1.08	0.538	6.30	1907
1908	0.170	0.085	0.085	9.29	13.4	6.35	2.49	1.48	1.73	---	---	---	---	1908
1909	---	---	---	---	---	9.32	3.65	1.37	0.784	1.30	0.991	0.142	---	1909
1910	0.085	0.057	5.97	4.69	3.39	1.71	0.989	0.194	0.111	0.181	0.085	0.057	1.47	1910
1911	0.028	0.014	5.61	8.32	6.53	4.36	1.39	0.683	0.162	0.555	0.425	0.283	2.37	1911
1912	0.142	0.057	0.198	4.48	4.93	4.20	3.66	2.42	5.12	5.41	3.40	1.42	2.95	1912
1913	0.566	0.283	0.142	47.4	15.0	5.41	3.01	1.97	1.75	1.80	1.42	0.566	6.58	1913
1914	0.283	0.283	1.42	7.70	6.23	3.81	1.37	0.379	0.384	0.901	0.597	0.255	1.97	1914
1915	0.170	0.142	0.255	1.29	0.715	0.698	0.574	0.248	0.220	---	---	---	---	1915
1919	---	---	---	23.3	10.7	8.64	2.47	0.841	0.975	2.51	1.84	0.850	---	1919
1920	0.566	0.425	0.792	5.06	6.48	4.20	2.17	0.500	0.520	3.58	2.69	1.70	2.39	1920
1921	0.850	0.566	0.566	10.1	4.77	2.73	3.20	0.532	0.460	3.00	1.52	0.850	2.43	1921
1922	0.227	0.127	1.16	12.7	6.88	3.95	0.752	0.265	1.09	1.93	2.09	0.934	2.67	1922
1923	0.566	0.283	0.311	32.4	32.0	8.92	2.44	2.52	2.95	3.22	2.56	0.651	7.42	1923
1924	0.113	0.085	0.198	6.21	4.43	2.79	1.53	0.407	0.582	4.79	2.99	0.566	2.06	1924
1925	0.057	0.057	10.9	11.9	5.57	7.16	3.22	0.539	1.56	4.05	1.90	0.708	3.98	1925
1926	0.340	0.085	1.86	4.11	2.84	2.72	2.63	0.377	1.35	1.85	1.22	0.878	1.86	1926
1927	0.425	0.113	7.96	29.6	32.8	16.1	8.57	5.37	7.72	6.51	3.49	1.42	10.0	1927
1928	1.13	0.708	9.14	10.1	5.91	5.12	4.30	1.68	2.03	3.44	1.27	0.635	3.80	1928
1929	0.340	0.227	5.19	6.22	3.11	2.25	0.176	0.109	0.135	0.538	1.29	0.227	1.65	1929
1930	0.057	0.028	0.028	26.3	13.0	6.11	2.43	0.451	0.338	0.730	0.316	0.079	4.14	1930
1931	0.204	0.187	1.28	13.1	2.91	0.632	0.305	0.058	0.011	0.018	0.140	0.029	1.56	1931
1932	0.004	0.098	0.401	12.0	5.26	2.02	0.598	0.173	0.052	0.213	0.227	0.077	1.75	1932
1933	0	0	0.507	20.4	15.7	9.06	2.11	0.771	0.818	1.34	0.684	0.272	4.30	1933
1934	0.134	0.136	2.13	9.72	4.35	1.92	0.584	0.039	0.003	0.048	0.030	0.002	1.59	1934
1935	0	0	0.357	4.08	1.82	3.08	1.77	0.686	0.421	0.396	0.142	0.062	1.06	1935
1936	0.016	0.001	0	19.3	12.1	5.57	1.61	0.586	0.717	0.401	0.201	0.100	3.37	1936
1937	0.016	0	0	3.17	2.12	1.86	0.404	0.353	0.011	0.023	0.010	0.005	0.663	1937
1938	0	0	5.07	2.86	2.22	1.04	0.353	0.001	0	0	0	0	0.970	1938
1939	0	0	0	0.899	0.333	0.305	0.017	0	0	0	0	0	0.112	1939
1940	0	0	0	2.66	1.00	0.186	0	0.200	0	0	0	0	0.335	1940
1941	0	0	0	28.2	10.9	4.94	1.75	0.797	3.81	3.45	1.47	0.744	4.85	1941
1942	0.100	0.031	1.30	53.8	27.7	10.3	3.66	2.83	1.94	1.43	0.960	0.269	8.68	1942
1943	0.184	0.155	4.38	14.2	8.55	8.82	6.41	5.86	5.12	3.48	2.04	1.13	5.05	1943
1944	0.209	0.103	0.106	7.75	5.77	7.23	16.0	23.0	13.1	5.75	6.82	2.97	7.40	1944
1945	1.22	1.40	21.0	30.6	21.5	12.4	7.28	4.03	2.73	1.89	1.01	0.615	8.83	1945
1946	0.254	0.253	16.1	19.1	8.22	3.21	1.81	0.906	0.575	0.836	0.644	0.209	4.37	1946
1947	0.050	0.034	0.029	17.2	8.27	5.66	2.49	3.46	1.84	1.52	0.796	0.437	3.48	1947
1948	0.398	0.156	0.143	26.3	25.2	11.7	8.83	5.58	3.32	1.89	1.29	0.585	7.11	1948
1949	0.363	0.340	0.324	68.8	44.4	18.6	7.72	4.03	1.96	1.80	1.18	0.504	12.5	1949
1950	0.250	0.199	0.271	51.1	81.7	34.3	16.9	11.6	6.30	4.30	2.49	1.06	17.6	1950
1951	0.892	0.708	1.09	23.9	14.5	7.52	3.40	1.91	1.38	0.818	0.445	0.206	4.73	1951
1952	0.036	0.028	0.036	8.03	5.79	3.48	2.00	0.583	0.128	0.101	0.171	0.039	1.70	1952
1953	0.008	0.003	0.026	2.01	1.32	4.46	2.57	1.81	0.415	0.250	0.271	0.103	1.11	1953
1954	0.030	0.009	0.262	2.68	2.28	11.0	19.4	11.4	5.83	4.07	2.17	0.794	5.03	1954
1955	0.296	0.457	0.386	42.8	24.2	16.4	8.80	3.09	1.61	1.51	0.709	0.409	8.36	1955
1956	0.250	0.242	0.343	33.4	64.1	24.9	10.7	5.17	3.96	2.83	1.79	0.566	12.4	1956
1957	0.446	0.218	3.35	7.80	5.72	3.82	1.81	2.20	3.30	4.68	2.46	1.74	3.14	1957
1958	0.993	0.596	0.686	5.82	3.55	1.10	0.903	0.147	0.085	0.151	0.108	0.009	1.18	1958
1959	0.004	0.003	0.021	14.2	4.71	3.86	1.13	0.510	0.306	0.903	1.75	2.84	2.52	1959
1960	1.87	1.13	0.854	51.9	35.5	18.6	5.76	2.67	1.25	0.753	0.549	0.149	9.62	1960
1961	0.123	0.056	1.38	7.60	5.17	1.61	0.386	0.068	0.103	0.120	0.087	0.027	1.40	1961
1962	0.011	0.004	0.029	19.1	10.7	8.39	3.25	2.35	2.83	1.76	0.893	0.626	4.15	1962
1963	0.522	0.047	2.58	5.57	5.44	7.60	4.67	3.60	2.11	1.29	0.622	0.187	2.88	1963
1964	0.093	0.091	0.078	9.31	9.30	5.76	2.07	1.40	1.62	1.24	0.642	0.197	2.85	1964
1965	0.125	0.105	0.078	24.4	19.9	12.8	6.14	2.12	2.68	2.41	1.45	0.965	6.02	1965
1966	0.608	0.464	3.94	43.8	27.3	11.0	6.85	3.21	1.27	0.733	0.447	0.206	8.32	1966
1967	0.229	0.238	0.753	26.1	26.6	9.00	2.98	1.09	0.378	0.626	0.544	0.177	5.90	1967
1968	0.073	0.051	4.41	5.80	4.07	1.98	1.24	3.92	9.71	10.7	5.41	1.80	4.08	1968
1969	0.660	0.480	0.685	89.2	51.1	17.6	10.3	5.20	3.43	2.29	1.65	0.830	15.3	1969
1970	0.491	0.430	0.333	45.7	65.5	41.5	22.9	9.13	5.10	3.34	2.20	0.600	16.5	1970
1971	0.415	0.390	0.457	67.9	42.9	16.5	8.73	7.54	4.46	2.96	1.98	0.974	13.0	1971
1972	0.489	0.308	11.2	37.7	35.2	10.1	5.63	5.04	3.14	2.12	0.997	0.240	8.51	1972
1973	0.079	0.076	2.57	2.87	2.01	1.45	1.80	1.74	1.75	1.72	1.09	0.589	1.49	1973
1974	0.299	0.176	0.332	85.7	131	50.3	15.0	4.24	2.80	1.84	1.10	0.613	28.5	1974
1975	0.336	0.207	0.232	10.2	34.6	18.8	7.48	2.86	1.42	1.25	0.797	0.335	6.59	1975
1976	0.373	0.424	0.869	78.4	41.0	14.2	7.13	2.41	1.17	0.794	0.417	0.072	12.2	1976
1977	0.062	0.065	0.433	1.98	2.27	1.39	0.534	0.162	0.723	0.825	0.308	0.170	0.743	1977
1978	0.085	0.012	0.002	33.1	14.7	5.51	1.93	1.33	1.41	0.704	0.331	0.143	4.93	1978
1979	0.108	0.093	0.135	56.4	93.0	24.6	8.17	2.28	1.76	1.30	0.778	0.374	15.8	1979
1980	0.183	0.143	0.185	5.80	2.39	1.04	0.318	0.324	0.385	0.594	0.704	0.185	1.01	1980
1981	0.039	0.712	3.18	6.25	3.89	1.86	0.799	0.400	0.178	0.394	0.315	0.104	1.51	1981
1982	0.028	0.001	0.846	17.1	18.3	14.7	7.40	3.79	1.73	2.30	0.816	0.587	5.66	1982
1983	0.363	0.154	4.88	26.0	12.9	7.78	2.07	0.648	0.355	0.691	0.537	0.088	4.70	1983
1984	0.015	0	0.726	4.19	4.64	3.92	0.932	0.198	0.085	0.205	0.126	0.064	1.26	1984
1985	0.002	0	14.0	23.6	7.49	3.87	3.86	2.30	1.28	1.56	1.19	0.504	4.98	1985
1986	0.431	0.238	16.2	26.2	21.8	10.8	5.08	3.78	1.85	1.40	0.493	0.345	7.42	1986
MEAN	0.294	0.205	2.41	21.4	18.2	8.98	4.53	2.56	2.00	1.93	1.24	0.565	5.51	MEAN

LOCATION - LAT 49 59 20 N DRAINAGE AREA 8 470 km² INTERNATIONAL GAUGING STATION
LONG 97 33 05 W REGULATED

REMARKS - FORMERLY PUBLISHED UNDER STA NO 05DC001

PEMBINA RIVER AT NECHE - STATION NO 05DC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1903	---	---	---	---	1903
1904	122 ON MAY 2	110 ON MAY 2	0.057E ON MAR 1	589 000	1904
1905	---	38.8 ON APR 5	0.568E ON FEB 1	172 000	1905
1906	22.7 ON APR 4	11.6 E ON APR 1	0.057E ON MAR 1	119 000	1906
1907	---	62.0 ON MAY 14	0.057E ON FEB 1	198 000	1907
1908	26.2 ON APR 10	16.7 ON MAY 11	---	---	1908
1909	---	---	---	---	1909
1910	19.4 ON MAR 15	7.08 ON APR 20	0.057E ON FEB 1	46 300	1910
1911	25.5 ON MAR 24	14.7 ON MAY 18	0.014E ON FEB 1	74 800	1911
1912	28.3 ON JUL 29	24.6 ON JUL 29	0.057E ON FEB 1	93 500	1912
1913	110 ON APR 7	109 ON APR 8	0.142E ON MAR 1	208 000	1913
1914	---	11.0 ON APR 18	0.170 ON SEP 11	62 100	1914
1915	5.10 ON APR 7	4.36 ON APR 7	---	---	1915
1919	---	68.8 ON APR 15	---	---	1919
1920	---	---	---	---	
1921	---	10.2 B ON APR 19	0.283B ON MAR 26	75 600	1920
1922	---	20.8 ON APR 13	0.127 ON SEP 23	76 800	1921
1923	---	36.8 ON APR 7	0.127B ON FEB 1	84 200	1922
1924	---	88.3 ON APR 20	0.283E ON FEB 1	234 000	1923
1925	---	19.1 ON APR 20	0.085E ON FEB 1	65 000	1924
1926	---	66.5 ON MAR 28	0.057E ON JAN 1	126 000	1925
1927	88.1 ON MAY 12	9.00 ON JUL 6	0.057E ON MAR 1	52 400	1926
1928	---	86.4 ON MAY 12	0.113B ON FEB 1	317 000	1927
1929	---	36.0 B ON MAR 25	0.566B ON DEC 16	120 000	1928
1930	---	21.2 B ON MAR 21	0.028 ON JUL 5	52 100	1929
1931	44.7 B ON APR 9	82.1 B ON APR 8	0.028B ON FEB 1	130 000	1930
1932	35.1 B ON APR 5	42.2 B ON APR 9	0.006 ON SEP 9	49 400	1931
1933	---	33.1 B ON APR 9	0 B ON FEB 1 *	55 200	1932
1934	---	33.4 ON MAY 26	0 E ON JAN 1	136 000	1933
1935	---	22.1 B ON APR 9	0 ON SEP 15	50 000	1934
1936	---	10.3 ON JUN 18	0 ON JAN 1	33 600	1935
1937	6.71 ON JUN 8	71.5 ON APR 15	0 ON FEB 10	107 000	1936
1938	20.7 AT 02:00 CST ON MAR 20	6.03 ON APR 11	0 ON JAN 29	20 900	1937
1939	1.478 ON APR 4	17.8 ON MAR 19	0 E ON JAN 1	30 600	1938
1940	23.1 B AT 18:00 CST ON APR 20	1.428 ON APR 4	0 ON JAN 1	3 540	1939
1941	---	20.7 B ON APR 20	0 E ON JAN 1	10 600	1940
1942	101 IN APR	80.1 ON APR 14	0 E ON JAN 1	147 000	1941
1943	39.6 B ON MAR 27	97.1 ON APR 8	0.023B ON FEB 11	273 000	1942
1944	---	31.1 B ON MAR 27	0.096B ON MAR 9	159 000	1943
1945	89.1 AT 19:00 CST ON MAR 29	34.0 ON AUG 6	0.074B ON FEB 10	234 000	1944
1946	---	68.0 ON MAR 28	0.311B ON DEC 30	279 000	1945
1947	37.4 AT 10:00 CST ON APR 11	58.6 B ON MAR 24	0.085B ON DEC 29	138 000	1946
1948	107 AT 08:30 CST ON APR 21	36.5 ON APR 11	0.017B ON FEB 2	110 000	1947
1949	142 AT 15:00 CST ON APR 22	102 ON APR 21	0.142B ON FEB 8	225 000	1948
1950	303 B AT 09:30 CST ON APR 20 *	139 ON APR 22	0.255B ON DEC 29	393 000	1949
1951	56.6 B AT 13:00 CST ON APR 7	218 B ON APR 20	0.198B ON JAN 31	555 000	1950
1952	---	55.2 B ON APR 7	0.057B ON DEC 29	149 000	1951
1953	7.08 ON JUN 10	14.2 B ON APR 3	0.008 ON DEC 31	53 700	1952
1954	24.0 AT 16:00 CST ON JUL 7	6.74 ON JUN 11	0 ON MAR 10	34 900	1953
1955	76.5 AT 18:00 CST ON APR 5	23.6 ON JUL 7	0.008B ON FEB 6	159 000	1954
1956	147 AT 02:00 CST ON APR 27	73.6 ON APR 5	0.227 ON JAN 21	264 000	1955
1957	18.7 AT 22:30 CST ON MAR 27	136 ON APR 27	0.198 ON FEB 25	392 000	1956
1958	12.5 AT 16:30 CST ON APR 7	17.0 ON MAR 27	0.142 ON MAR 11	98 900	1957
1959	51.0 B AT 22:30 CST ON APR 5	10.5 ON APR 7	0.003B ON DEC 12	37 100	1958
1960	114 B AT 10:00 CST ON APR 14	48.1 B ON APR 5	0.003B ON JAN 7	79 400	1959
1961	10.5 AT 21:00 CST ON APR 3	108 B ON APR 14	0 ON SEP 16	305 000	1960
1962	103 B AT 14:30 CST ON APR 21	9.91 ON APR 3	0 ON AUG 29	44 100	1961
1963	32.6 AT 00:20 CST ON JUL 28	102 B ON APR 21	0 ON FEB 21	131 000	1962
1964	30.6 B AT 16:30 CST ON APR 17	24.5 ON JUL 28	0.003 ON MAR 9	90 800	1963
1965	102 AT 00:00 CST ON APR 14	22.5 B ON APR 17	0.082B ON MAR 10	63 600	1964
1966	122 B AT 10:00 CST ON APR 3	96.3 ON APR 14	0.054B ON MAR 29	190 000	1965
1967	82.1 AT 13:00 CST ON APR 23	113 B ON APR 3	0.144B ON DEC 12	263 000	1966
1968	20.8 AT 06:00 CST ON MAR 28	80.4 ON APR 23	0.085 ON DEC 28	186 000	1967
1969	208 AT 13:45 CST ON APR 21	20.6 ON MAR 28	0.045 ON FEB 13	129 000	1968
1970	200 AT 20:00 CST ON APR 27	197 ON APR 22	0.340B ON JAN 28	481 000	1969
1971	208 AT 12:30 CST ON APR 12	180 ON APR 28	0.170B ON MAR 31	521 000	1970
1972	72.2 AT 00:30 CST ON APR 16	200 ON APR 12	0.340B ON FEB 19	410 000	1971
1973	6.34 ON MAR 27	66.0 B ON APR 16	0.113B ON DEC 21	269 000	1972
1974	292 AT 05:00 CST ON APR 28	6.06 ON MAR 27	0.078B ON JAN 5	48 900	1973
1975	42.5 AT 03:00 CST ON MAY 18	282 ON APR 28 *	0.170B ON FEB 6	772 000	1974
1976	125 AT 19:00 CST ON APR 19	42.2 ON MAY 16	0.153 ON MAR 14	208 000	1975
1977	7.39 AT 09:00 CST ON MAY 21	124 ON APR 19	0.057B ON DEC 8	386 000	1976
1978	---	6.63 ON MAY 21	0.057B ON JAN 1	23 400	1977
1979	---	95.7 B ON APR 11	0 B ON MAR 7	155 000	1978
1980	12.3 AT 07:00 CST ON APR 7	263 B ON APR 21	0.085B ON JAN 17	499 000	1979
1981	8.07 AT 12:00 CST ON APR 1	12.1 ON APR 7	0.057B ON DEC 25	31 800	1980
1982	---	7.39 ON APR 1	0.010B ON FEB 14	47 800	1981
1983	---	40.5 ON JUN 6	0 B ON FEB 6	178 000	1982
1984	8.83 AT 16:00 CST ON APR 7	45.3 B ON APR 9	0.014B ON DEC 31	148 000	1983
1985	49.6 B AT 17:00 CST ON MAR 20	7.05 ON APR 3	0 B ON JAN 28	39 700	1984
1986	---	48.7 B ON MAR 20	0 B ON JAN 12	157 000	1985
		62.3 B ON MAR 24	0.158B ON FEB 22	234 000	1986
				174 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO 05OB023

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	4.00	3.44	4.82	2.73	0.844	1.02	---	---	---	---	1962
1963	---	---	0.381	3.44	2.55	5.71	1.67	0.850	0.150	0.111	0.082	0.011	---	1963
1964	0	0	0.010	7.76	5.27	0.893	0.883	0.077	0.028	0.120	0.040	0.024	1.34	1964
1965	0.010	0.006	0.036	11.1	13.4	5.72	0.766	1.35	0.886	0.907	0.701	0.451	2.95	1965
1966	0.217	0	4.89	11.7	6.97	2.60	1.86	0.201	0.083	0.064	0.038	0.015	2.41	1966
1967	0.021	0.032	0.300	7.99	8.41	1.27	0.302	0.220	0.020	0.009	0.020	0.006	1.55	1967
1968	0	0	1.17	0.170	0.149	0.384	0.422	3.57	12.8	4.95	0.385	0.130	2.00	1968
1969	0.182	0.485	1.15	80.2	23.1	7.27	3.31	3.01	0.613	0.285	0.186	0.085	9.94	1969
1970	0.070	0.187	0.405	18.3	37.9	20.7	8.80	2.54	0.684	0.339	0.192	0.101	7.55	1970
1971	0.053	0.035	0.058	36.6	17.0	7.65	10.5	3.37	0.463	0.212	0.507	1.06	6.46	1971
1972	0.516	0.214	8.44	19.4	13.2	6.76	5.33	1.46	1.31	0.243	0.206	0.130	4.77	1972
1973	0.135	0.082	0.575	0.792	0.772	1.59	2.41	0.800	1.14	0.894	0.450	0.490	0.870	1973
1974	0.323	0.377	0.389	76.7	49.9	21.6	4.50	0.659	0.110	0.060	0.020	0.017	12.9	1974
1975	0.019	0.017	0.016	12.0	32.2	10.7	3.13	0.188	0.048	0.069	0.054	0.040	4.89	1975
1976	1.57	0.132	0.083	63.6	19.2	5.60	0.798	0.093	0.034	0.014	0.010	0.010	7.54	1976
1977	0.011	0.017	0.018	0.074	0.083	0.051	0.052	0.017	0.016	0.020	0.019	0.018	0.034	1977
1978	0.024	0.024	0.048	10.8	5.77	2.18	0.440	0.028	0.007	0.015	0.010	0.007	1.61	1978
1979	0.002	0.001	0.003	40.4	35.4	7.53	1.05	0.098	0.125	0.048	0.095	0.025	7.06	1979
1980	0.018	0.019	0.021	2.43	0.353	0.106	0.089	0.005	0.006	0.026	0.001	0.001	0.253	1980
1981	0.007	0.046	3.72	4.82	0.191	0.103	0.042	0.043	0.047	0.056	0.059	0.044	0.774	1981
1982	0.012	0.005	0.251	16.8	11.1	9.05	3.06	0.633	0.087	0.077	0.052	0.218	3.46	1982
1983	0.834	0.323	1.52	15.7	5.96	1.85	0.827	0.040	0.019	0.017	0.014	0.007	2.24	1983
1984	0.004	0.015	0.190	1.34	2.23	1.22	0.052	0.015	0.002	0.007	0.010	0.013	0.425	1984
1985	0.005	0.002	6.98	8.46	1.86	0.848	0.575	0.137	0.040	0.040	0.048	0.010	1.65	1985
1986	0.023	0.023	3.61	11.3	9.35	3.95	2.46	0.508	0.071	0.232	0.108	0.033	2.61	1986
MEAN	0.176	0.088	1.37	18.6	12.2	5.19	2.24	0.825	0.782	0.367	0.135	0.121	3.70	MEAN

LOCATION - LAT 49 13 18 N DRAINAGE AREA, 4 490 km²
LONG 99 02 03 W REGULATED SINCE 1940

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO 05OB023

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	19.6 B ON APR 18	0 B ON MAR 1 *	---	1962
1963	---	11.3 ON JUN 11	0 B ON MAR 1	---	1963
1964	---	11.5 ON APR 18	0 B ON JAN 1	39 200	1964
1965	---	20.7 ON APR 20	0 0.066 ON FEB 1	93 100	1965
1966	---	23.1 B ON MAR 31	0 B ON JAN 31	76 200	1966
1967	---	15.3 ON APR 25	0 B ON DEC 19	49 000	1967
1968	---	16.9 ON SEP 9	0 B ON JAN 1	63 200	1968
1969	---	278 B ON APR 15	0 0.688 ON JAN 1	313 000	1969
1970	---	76.7 ON MAY 16	0 0.658 ON JAN 16	239 000	1970
1971	---	80.7 ON APR 12	0 0.348 ON FEB 11	204 000	1971
1972	---	22.0 ON APR 14	0 1.138 ON DEC 26	151 000	1972
1973	---	3.20 ON JUL 7	0 0.718 ON FEB 15	27 400	1973
1974	---	317 ON APR 22 *	0 0.108 ON NOV 14	406 000	1974
1975	---	55.5 ON MAY 4	0 0.11 ON SEP 15	154 000	1975
1976	---	118 B ON APR 8	0 0.108 ON NOV 3	238 000	1976
1977	---	0.1228 ON APR 10	0 0.088 ON JAN 1	1 070	1977
1978	---	16.5 B ON APR 11	0 ON SEP 10	50 700	1978
1979	---	167 ON APR 25	0 0.018 ON JAN 20	223 000	1979
1980	---	4.80 A ON APR 9	0 ON JUL 30	6 010	1980
1981	12.1 AT 12 53 CST ON MAR 31	12.0 ON MAR 31	0 0.018 ON JAN 1	24 400	1981
1982	27.8 AT 07 25 CST ON APR 17 *	27.5 ON APR 18	0 0.068 ON FEB 16	109 000	1982
1983	22.1 AT 17 38 CST ON APR 9	21.6 ON APR 9	0 0.048 ON DEC 26	70 600	1983
1984	3.25 AT 02 22 CST ON MAY 18	3.11 ON MAY 18	0 0.01 ON AUG 28	13 400	1984
1985	23.1 AT 08 25 CST ON MAR 23	22.5 ON MAR 23	0 0.018 ON FEB 22	50 200	1985
1986	16.7 B AT 07 24 CST ON MAR 29	16.5 B ON MAR 29	0 0.168 ON JAN 1	82 500	1986
				117 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KALEIDA - STATION NO 05OB008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	3.92	1.73	2.04	---	1957
1958	1.01	0.481	0.546	4.37	2.26	0.546	0.318	0.026	0.008	0.013	0.256	0.102	0.826	1958
1959	0.016	0	0.263	5.46	2.11	1.18	0.261	0.198	0.118	0.952	2.81	3.06	1.37	1959
1960	1.55	1.24	0.577	46.4	33.3	10.4	4.19	1.99	0.851	0.511	0.191	0.119	6.42	1960
1961	0.123	0.057	0.609	7.18	3.97	0.777	0.080	0.015	0.022	0.007	0	0	1.07	1961
1962	0	0	0.001	8.17	5.96	4.49	1.77	2.31	2.67	1.14	0.628	0.467	2.30	1962
1963	0.203	0	0.869	3.90	6.21	6.27	2.60	2.91	1.64	0.763	0.436	0.044	2.18	1963
1964	0	0	0.006	6.22	9.62	3.21	0.679	0.716	0.800	0.497	0.224	0.005	1.83	1964
1965	0	0	0	13.9	18.1	10.7	3.61	1.71	2.69	1.94	1.27	0.691	4.55	1965
1966	0.258	0	4.99	30.0	19.8	8.17	3.57	1.64	0.576	0.174	0.156	0.047	5.79	1966
1967	0.085	0.132	0.812	14.4	19.7	7.01	1.74	0.377	0.093	0.462	0.145	0.066	3.77	1967
1968	0	0	3.11	3.23	1.61	0.710	0.714	2.92	11.3	11.4	4.75	1.33	3.43	1968
1969	0.475	0.418	0.405	85.0	47.4	13.4	7.52	3.81	2.56	1.61	0.953	0.706	14.5	1969
MEAN	0.310	0.184	1.02	19.9	14.2	5.57	2.25	1.55	1.95	1.80	1.04	0.666	4.17	MEAN

LOCATION - LAT 49 03 30 N DRAINAGE AREA, 7 130 km²
LONG 98 27 50 W REGULATED

PEMBINA RIVER NEAR KALEIDA - STATION NO 05DB008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	---	---	---	1958
1959	15.08 AT 20 00 CST ON APR 5	6.56 ON APR 6	0.0084 ON SEP 2	26 000	1959
		14.2 B ON APR 5	0 B ON JAN 15 +	43 200	1958
1960	75.3 AT 06 00 CST ON APR 24 +	74.2 ON APR 24	0.0518 ON DEC 26	265 000	1960
1961	---	8.898 ON APR 18	0 ON OCT 27	33 600	1961
1962	36.2 AT 20 40 CST ON APR 20	34.5 ON APR 20	0 B ON JAN 1	72 600	1962
1963	---	8.44 ON JUN 5	0 B ON JAN 15	68 200	1963
1964	---	11.7 ON MAY 10	0 B ON JAN 1	56 000	1964
1965	---	35.1 B ON APR 14	0 B ON JAN 1	144 000	1965
1966	65.18 AT 01 30 CST ON APR 3	58.0 B ON APR 3	0 B ON FEB 1	183 000	1966
1967	46.7 AT 16 30 CST ON APR 23	40.5 ON APR 23	0 B ON DEC 30	119 000	1967
1968	---	15.1 ON SEP 27	0 B ON JAN 1	105 000	1968
1969	---	266 ON APR 19 +	0.3148 ON MAR 17	457 000	1969
				132 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS + - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KILLARNEY - STATION NO 05DA006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.803	0.159	0.064	0.065	0.001	0.335	0.010	0.836	---	---	0.287	1959
1960	---	---	0.256	5.06	2.14	0.525	0.027	0	0	0	---	---	0.882	1960
1961	---	---	0.711	0.344	0.136	0.012	0	0	0	0	---	---	0.151	1961
1962	---	---	0.044	1.83	0.220	1.19	0.036	0.031	0	0	---	---	0.411	1962
1963	---	---	0.481	0.827	0.521	0.986	0.014	0.009	0.005	0.002	---	---	0.354	1963
1964	---	---	0.002	2.39	0.851	0.431	0.138	0.005	0.010	0.020	---	---	0.450	1964
1965	---	---	0	3.16	1.26	0.592	0.420	0.154	0.209	0.113	---	---	0.732	1965
1966	---	---	1.15	1.07	1.80	0.332	0.746	0.084	0.002	0	---	---	0.650	1966
1967	---	---	0.029	0.873	0.640	0.146	0.003	0	0	0	---	---	0.210	1967
1968	---	---	0.096	0.175	0.099	0.033	0.026	0.492	0.736	0.107	---	---	0.220	1968
1969	---	---	0	6.83	1.15	0.427	2.00	0.111	0.006	0.017	---	---	1.55	1969
1970	---	---	0	2.88	3.39	0.188	0.036	0.008	0	0	---	---	0.810	1970
1971	---	---	0	2.26	0.363	1.04	0.934	0.001	0	0.385	---	---	0.615	1971
1972	---	---	3.06	3.89	1.25	2.51	0.218	0.075	0.050	0.015	---	---	1.37	1972
1973	---	---	0.310	0.167	0.776	1.44	0.309	0.277	0.214	0.284	---	---	0.487	1973
1974	---	---	0.003	12.1	4.81	0.580	0.075	0.074	0.007	0.044	---	---	2.21	1974
1975	---	---	0.014	7.81	2.62	1.25	0.086	0.031	0.409	0.923	---	---	1.62	1975
1976	---	---	1.03	9.89	0.540	0.116	0.005	0	0	0	---	---	1.62	1976
1977	---	---	0.104	0.113	0.159	0.042	0.130	0.022	0.003	0.005	---	---	0.072	1977
1978	---	---	0.029	1.23	0.733	0.331	0.041	0	0	0	---	---	0.284	1978
1979	---	---	0	7.06	1.70	0.389	0.016	0.001	0	0	---	---	1.13	1979
1980	---	---	0	0.714	0.008	0	0	0.110	0.077	0.186	---	---	0.133	1980
1981	---	0.600	0.271	0.156	0.141	0.252	0.071	0.075	0.018	0.020	---	---	0.126	1981
1982	---	---	0.443	2.43	0.429	0.137	0.035	0.007	0.002	0.039	---	---	0.435	1982
1983	---	---	0.941	1.49	0.558	0.131	0.046	0.001	0.001	0.001	---	---	0.389	1983
1984	---	---	0.357	0.271	0.518	0.051	0.005	0	0	0	---	---	0.151	1984
1985	---	---	2.94	0.503	0.081	0.010	0.018	0.109	0.005	0.027	---	---	0.465	1985
1986	---	---	1.03	1.25	1.52	0.061	0.074	0.027	0	0.003	---	---	0.497	1986
MEAN	---	0.600	0.504	2.82	1.02	0.474	0.197	0.073	0.063	0.106	---	---	0.651	MEAN

LOCATION - LAT 49 12 41 N LONG 99 44 36 W DRAINAGE AREA 354 km^2 NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.80 AND 0 m^3/s OCCURRED IN FEB

PEMBINA RIVER NEAR KILLARNEY - STATION NO 05DA008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.63 B ON MAR 20	0 B ON MAR 1 *	e 070	1959
1960	---	13.1 ON APR 6	0 B ON MAY 1	21 000	1960
1961	---	4.87 B ON MAR 22	0 B ON MAR 1	3 200	1961
1962	---	16.2 ON JUN 16	0 B ON MAR 1	6 700	1962
1963	---	6.09 ON JUN 5	0 B ON MAR 1	7 490	1963
1964	---	8.41 ON APR 10	0 B ON MAR 1	9 520	1964
1965	---	10.7 ON APR 13	0 B ON MAR 1	15 500	1965
1966	---	5.01 ON JUL 4	0 B ON MAR 1	13 800	1966
1967	---	2.89 ON APR 29	0 B ON MAR 1	4 430	1967
1968	---	3.65 ON AUG 25	0 B ON MAR 1	4 650	1968
1969	39.1 AT 16 00 CST ON APR 12 *	38.0 B ON APR 11	0 B ON MAR 1	32 800	1969
1970	---	15.2 ON APR 27	0 B ON MAR 1	17 100	1970
1971	---	10.8 B ON APR 7	0 B ON MAR 1	13 000	1971
1972	---	15.9 B ON MAR 17	0 B ON MAR 1	29 100	1972
1973	---	9.00 ON JUN 19	0 B ON MAR 1	9 890	1973
1974	---	35.4 ON APR 21	0 ON JUL 25	46 600	1974
1975	---	37.1 ON APR 29	0.003 ON JUL 30	34 300	1975
1976	---	22.7 B ON APR 2	0 E ON JUL 23	30 100	1976
1977	---	0.623E ON MAY 19	0 ON AUG 29	1 530	1977
1978	---	3.40 E ON MAY 26	0 ON AUG 2	6 210	1978
1979	---	71.4 B ON APR 20 *	0 B ON MAR 1	23 900	1979
1980	---	3.38 B ON APR 5	0 B ON MAR 1	2 810	1980
1981	---	0.898 ON AUG 4	0 ON JUL 26	2 660	1981
1982	11.4 AT 07 15 CST ON APR 14	10.5 ON APR 14	0 B ON MAR 1	9 210	1982
1983	6.388 AT 11 51 CST ON MAR 14	5.19 B ON MAR 14	0.001 ON JUL 27	8 440	1983
1984	2.61 AT 11 36 CST ON MAY 5	2.42 ON MAY 5	0 ON JUL 5	3 190	1984
1985	19.2 B AT 09 45 CST ON MAR 20	15.4 B ON MAR 20	0 B ON MAR 1	9 840	1985
1986	7.07 AT 12 24 CST ON MAY 7	6.48 ON MAY 7	0 B ON MAR 1	10 500	1986
				13 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

PEMBINA RIVER NEAR LA RIVIERE - STATION NO 05OB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	0.717	3.22	3.63	3.86	2.10	2.98	1.50	0.686	0.346	0.036	---	1953
1954	0	0	0	5.45	7.13	1.85	0.488	0.653	0.441	0.326	0.211	0.023	1.38	1954
1955	0.061	0	0	8.70	15.0	10.0	3.20	1.45	1.67	1.84	1.17	0.603	3.65	1955
1956	0.181	0	2.71	15.5	12.5	7.31	4.25	1.47	0.365	0.088	0.067	0.022	3.75	1956
1957	0.047	0.081	0.438	7.88	11.1	4.61	0.954	0.286	0.119	0.075	0.092	0.032	2.15	1957
1958	0	0	1.53	1.85	1.65	0.803	0.508	2.97	10.2	9.47	4.00	1.23	2.85	1958
1959	0.282	0.334	0.680	69.1	37.8	11.9	6.72	3.60	2.35	1.47	1.12	0.532	12.9	1959
1960	0.249	0.114	0.089	16.2	39.4	22.5	13.6	6.90	2.84	1.91	1.04	0.189	8.61	1960
1961	0.021	0.014	0.015	30.8	27.5	9.32	7.75	6.46	3.36	2.01	1.13	0.556	7.44	1961
1962	0.524	0.089	2.92	25.6	18.1	6.91	4.77	4.04	2.45	1.31	0.768	0.064	5.62	1962
1963	0.003	0.002	0.515	1.90	1.18	0.757	1.42	1.47	1.24	1.33	0.860	0.611	0.951	1963
1964	0.250	0.310	0.579	70.5	76.4	35.6	9.10	2.35	1.48	0.746	0.392	0.178	16.5	1964
1965	0.110	0.015	0.024	4.92	33.1	13.0	4.97	1.74	0.930	0.668	0.348	0.186	5.04	1965
1966	0.218	1.74	0.692	68.0	38.2	10.2	2.19	0.826	0.479	0.259	0.106	0.021	10.2	1966
1967	0.013	0.013	0.037	0.156	0.925	0.303	0.048	0.007	0.221	0.085	0.033	0.022	0.156	1967
MEAN	0.134	0.195	0.727	23.3	21.6	9.27	4.14	2.35	1.97	1.46	0.780	0.288	5.80	MEAN

LOCATION - LAT 49 13 50 N DRAINAGE AREA 5 320 km^2
LONG 98 41 20 W REGULATED

PEMBINA RIVER NEAR LA RIVIERE - STATION NO 05OB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	4.87 ON MAY 3	0 B ON MAR 1 *	---	1963
1964	---	8.78 ON MAY 1	0 B ON JAN 1	43 700	1964
1965	---	16.0 ON MAY 5	0 B ON JAN 10	115 000	1965
1966	---	18.6 ON MAY 5	0 B ON JAN 28	116 000	1966
1967	---	21.3 ON APR 21	0 B ON DEC 24	67 800	1967
1968	---	13.5 ON SEP 23	0 B ON JAN 1	80 300	1968
1969	263 ON APR 18	0.2215 ON JAN 8	408 000	1969
1970	47.6 AT 20 30 CST ON MAY 15	47.0 ON MAY 15	0.0578 ON DEC 31	271 000	1970
1971	---	67.7 ON APR 24	0.0118 ON MAR 10	235 000	1971
1972	---	37.4 B ON APR 10	0.0068 ON DEC 31	178 000	1972
1973	4.84 AT 09 24 CST ON JUL 8	4.73 ON JUL 8	0.0018 ON FEB 10	30 000	1973
1974	306 AT 07 51 CST ON APR 25 *	303 ON APR 25 *	0.1428 ON FEB 3	521 000	1974
1975	48.7 AT 12 00 CST ON MAY 11	43.1 ON MAY 11	0.0098 ON FEB 16	159 000	1975
1976	114 AT 13 15 CST ON APR 14	113 ON APR 14	0.0148 ON DEC 28	321 000	1976
1977	8.55 AT 10 02 CST ON MAY 19	6.34 ON MAY 19	0 ON JUL 25	4 930	1977
				183 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR MANITOU - STATION NO 05OB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	3 92	1 26	3 25	0 284	0 326	0 475	---	---	---	1921
1922	---	---	---	7 46	4 57	1 52	0 314	0 243	0 318	---	---	---	---	1922
1923	---	---	---	20 1	22 1	5 55	1 86	2 40	---	---	---	---	---	1923
1924	---	---	---	---	2 73	2 01	0 557	---	---	---	---	---	---	1924
1925	---	---	3 68	7 52	4 35	2 46	1 25	1 06	---	---	---	---	---	1925
1926	---	---	---	---	1 01	0 600	0 455	0 332	---	---	---	---	---	1926
1927	---	---	---	15 8	13 0	10 5	5 77	5 94	8 48	5 96	---	---	---	1927
1928	---	---	4 37	6 44	3 97	2 52	1 15	0 781	---	---	---	---	---	1928
1929	---	---	---	2 35	2 40	0 728	0 372	0 047	0 027	0 087	---	---	---	1929
1930	---	---	---	14 8	9 36	3 83	0 850	0 478	0 492	0 668	---	---	---	1930
1931	---	---	---	3 43	1 70	0 535	0 138	0 016	0 017	0 029	---	---	---	1931
1932	---	---	---	6 52	3 24	1 03	0 469	---	---	---	---	---	---	1932
1933	---	---	0 312	15 3	11 5	5 57	1 32	0 642	1 11	1 11	---	---	---	1933
1934	---	---	---	6 60	3 18	1 16	0 233	0 011	0 006	0 012	---	---	---	1934
1935	---	---	---	1 75	1 08	0 939	0 806	0 886	0 485	0 341	---	---	---	1935
1936	---	---	0	10 7	8 85	4 31	1 17	0 453	0 567	0 471	---	---	---	1936
1937	---	---	0	1 10	0 787	0 719	0 161	0 024	0 002	0 007	---	---	---	1937
1938	---	---	1 84	2 29	1 71	0 820	0 149	0 053	0 003	0 013	---	---	---	1938
1939	---	---	0 038	0 302	0 113	0 038	0 005	0	0	---	---	---	---	1939
1940	---	---	0	0 481	0 099	0 013	0 002	0 088	0 007	0	---	---	---	1940
1941	---	---	0	14 7	7 52	2 39	0 881	0 703	1 05	1 05	---	---	---	1941
1942	---	---	1 56	29 0	18 3	5 80	1 71	1 36	1 15	0 847	---	---	---	1942
1943	---	---	1 99	9 48	5 05	3 18	2 77	5 80	4 54	2 89	---	---	---	1943
1944	---	---	---	3 21	4 41	5 12	22 3	17 4	8 81	4 15	3 54	---	---	1944
1945	---	---	11 3	24 1	14 8	7 80	5 62	2 70	1 81	1 20	---	---	---	1945
1946	---	---	8 77	12 9	5 11	1 73	1 01	0 493	0 310	0 392	0 283	---	---	1946
1947	---	---	---	9 19	5 82	2 40	1 02	1 45	1 29	0 843	---	---	---	1947
1948	---	---	---	9 47	15 6	7 44	4 50	3 92	2 43	1 15	---	---	---	1948
1949	---	---	---	58 8	30 8	13 3	6 49	2 84	1 50	0 882	---	---	---	1949
1950	---	---	---	19 0	37 4	24 8	12 3	8 43	4 84	3 03	---	---	---	1950
1951	---	---	---	13 5	11 3	5 50	2 24	1 03	0 536	0 205	---	---	---	1951
1952	---	---	---	5 80	4 52	2 33	0 814	0 200	0 018	0 023	0 001	---	---	1952
1953	---	---	---	1 26	0 577	2 58	1 80	0 878	0 174	0 069	0 083	---	---	1953
1954	---	---	---	1 06	0 881	9 01	17 8	8 29	3 86	2 05	1 18	---	---	1954
1955	---	---	0 311	30 2	17 4	8 11	5 13	1 70	0 630	0 437	---	---	---	1955
1956	---	---	---	13 6	45 1	15 0	6 61	3 88	2 86	2 21	0 744	0 114	---	1956
1957	0 080	0 037	2 58	5 99	3 51	1 96	0 597	1 17	2 83	---	---	---	---	1957
MEAN	0 080	0 037	2 45	11 3	8 94	4 47	3 04	2 15	1 61	1 05	0 959	0 114	---	MEAN

LOCATION - LAT 49 08 50 N DRAINAGE AREA 5 800 km²
LONG 98 33 45 W REGULATED

PEMBINA RIVER NEAR MANITOU - STATION NO 05OB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1921	---	---	---	---	
1922	---	21 4 ON JUL 4	---	---	1921
1923	---	19 3 E ON APR 4	---	---	1922
1924	---	88 5 E ON APR 19	---	---	1923
		---	---	---	1924
1925	---	---			
1926	---	24 5 E ON MAR 25	---	---	1925
1927	---	1 53 ON APR 24	---	---	1926
1928	---	25 2 ON APR 13	---	---	1927
1929	---	16 4 E ON MAR 24	---	---	1928
		5 24 ON APR 18	---	---	1929
1930	---				
1931	---	28 6 E ON APR 6	---	---	1930
1932	---	8 07E ON APR 6	---	---	1931
1933	---	18 4 E ON APR 8	---	---	1932
1934	---	---	---	---	1933
		11 2 E ON APR 7	0 ON OCT 1 *	---	1934
1935	---				
1936	---	4 81E ON APR 13	---	---	1935
1937	---	---	---	---	1936
1938	---	---	---	---	1937
1939	---	---	---	---	1938
		---	---	---	1939
1940	---				
1941	---	---	---	---	1940
1942	---	---	---	---	1941
1943	---	---	---	---	1942
1944	---	---	---	---	1943
		34 5 ON JUL 20	---	---	1944
1945	---				
1946	---	---	---	---	1945
1947	---	---	---	---	1946
1948	---	14 5 ON APR 4	---	---	1947
1949	---	33 7 ON APR 21	---	---	1948
		142 ON APR 17 *	---	---	1949
1950	---				
1951	---	75 3 B ON APR 17	---	---	1950
1952	---	18 2 ON APR 5	---	---	1951
1953	---	15 7 B ON APR 1	0 ON SEP 13	---	1952
1954	---	8 10 ON JUN 5	---	---	1953
		27 0 ON JUL 1	---	---	1954
1955	---	---			
1956	---	70 2 ON MAY 1	---	---	1955
1957	---	12 7 B ON MAR 23	---	---	1956
			---	---	1957
				---	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	2.07	4.72	4.34	2.61	2.62	1.88	0.620	---	---	2.33	1962
1963	---	---	0.245	3.01	4.20	4.11	2.38	2.39	1.55	0.536	---	---	2.30	1963
1964	---	---	0	5.06	8.03	3.00	3.79	2.53	0.836	0.257	---	---	2.94	1964
1965	---	---	0	8.24	16.2	8.76	2.27	1.92	2.01	1.45	---	---	5.09	1965
1966	---	---	1.37	13.6	10.1	4.78	2.55	0.942	0.121	0.120	---	---	4.16	1966
1967	---	---	0.006	5.26	11.5	4.06	1.13	0.081	0.040	0.020	---	---	2.75	1967
1968	---	---	0.370	1.52	0.851	0.428	0.495	1.57	10.5	7.87	---	---	2.91	1968
1969	---	---	0	81.7	42.7	11.0	5.17	3.26	1.93	0.948	---	---	18.2	1969
1970	---	---	0.055	12.4	36.7	24.9	14.7	5.43	2.33	1.58	---	---	12.2	1970
1971	---	---	0.042	31.7	26.6	6.71	8.30	6.89	2.78	1.82	---	---	10.6	1971
1972	---	---	4.34	23.0	18.6	6.75	5.89	---	---	---	---	---	---	1972
MEAN	---	---	0.584	17.1	16.4	7.17	4.48	2.76	2.38	1.52	---	---	6.35	MEAN

LOCATION - LAT 49 21 17 N DRAINAGE AREA, 4 980 km²
LONG 98 49 04 W REGULATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	7.14 ON APR 24	0 B ON MAR 1 *	49 300	1962
1963	---	5.66 ON MAY 2	0 B ON MAR 1	48 700	1963
1964	---	9.91 ON MAY 7	0 B ON MAR 1	62 100	1964
1965	---	19.2 ON MAY 18	0 B ON MAR 1	108 000	1965
1966	---	16.5 ON APR 28	0 B ON MAR 1	88 200	1966
1967	---	16.7 ON MAY 7	0 B ON MAR 1	58 200	1967
1968	---	12.7 ON SEP 20	0 B ON MAR 1	61 700	1968
1969	---	289 ON APR 17 *	0 B ON MAR 1	385 000	1969
1970	---	44.2 ON MAY 12	0.028B ON MAR 1	259 000	1970
1971	---	65.1 ON APR 18	0.034B ON MAR 1	224 000	1971
1972	---	25.4 ON APR 18	0 B ON MAR 1	---	1972
				134 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	0.009	0.002	0.029	11.8	5.80	4.41	1.55	2.19	2.72	1.09	0.480	0.662	2.57	1962
1963	0.280	0	1.16	3.82	4.71	5.16	2.73	2.77	1.72	0.773	0.327	0.095	1.97	1963
1964	0.023	0	0	6.56	8.01	3.41	1.01	1.26	0.966	0.653	0.227	0.032	1.84	1964
1965	0	0	0	13.0	18.3	10.8	3.54	1.60	2.28	1.79	1.14	0.836	4.46	1965
1966	0.347	0.064	4.06	29.2	19.7	8.03	3.75	1.87	0.733	0.307	0.161	0.076	8.70	1966
1967	0.133	0.098	0.878	16.9	18.5	6.07	1.80	0.466	0.017	0.489	0.263	0.083	3.82	1967
1968	0.013	0	7.48	3.66	1.98	0.869	0.525	3.18	9.21	9.71	4.83	1.28	3.57	1968
1969	0.543	0.405	0.441	88.1	43.6	13.5	8.20	4.36	2.52	1.71	1.20	0.636	13.7	1969
1970	0.424	0.355	0.342	31.0	52.9	30.4	17.9	7.38	3.70	2.15	1.21	0.409	12.4	1970
1971	0.288	0.273	0.322	57.3	36.8	13.2	9.73	8.27	4.01	2.30	1.63	1.06	11.3	1971
1972	0.531	0.395	7.67	34.1	21.9	8.89	5.58	4.66	2.76	2.05	0.807	0.143	7.46	1972
1973	0.081	0.085	1.60	2.11	1.40	0.837	1.30	1.44	1.28	1.44	0.924	0.418	1.09	1973
1974	0.248	0.321	0.335	85.0	102	42.8	10.4	3.29	2.17	1.25	0.946	0.372	20.8	1974
1975	0.185	0.106	0.194	7.27	33.3	15.5	5.38	2.04	0.994	0.843	0.594	0.254	5.59	1975
1976	0.328	1.26	1.16	74.5	36.9	10.7	3.24	1.21	0.715	0.546	0.248	0.006	10.8	1976
1977	0	0	0.082	0.602	0.981	0.535	0.141	0.005	0.093	0.242	0.067	0.023	0.232	1977
1978	0.007	0	0.068	17.8	10.4	3.19	1.36	0.869	0.657	0.342	0.151	0.076	2.88	1978
1979	0.027	0.007	0.030	38.3	83.1	21.1	5.51	1.43	1.29	1.11	0.813	0.266	12.8	1979
1980	0.053	0.019	0.038	4.22	2.17	0.646	0.044	0.040	0.028	0.052	0.132	0.073	0.623	1980
1981	0	0.170	1.47	5.38	2.79	0.759	0.305	0.092	0.034	0.074	0.087	0.023	0.931	1981
1982	0	0	0.337	12.1	16.7	12.9	5.30	2.59	1.31	1.19	0.545	0.199	4.44	1982
1983	0.101	0.027	1.27	19.4	12.1	4.96	1.74	0.397	0.138	0.287	0.186	0.050	3.39	1983
1984	0.001	0.005	0.208	1.96	2.21	2.75	0.389	0.026	0.002	0.020	0.022	0.005	0.631	1984
1985	0	0	9.07	18.9	5.62	2.68	1.39	0.512	0.683	0.857	0.444	0.149	3.36	1985
1986	0.176	0.086	7.84	18.5	17.3	8.60	3.29	2.41	1.41	0.698	0.278	0.137	5.09	1986
MEAN	0.151	0.147	1.85	24.0	22.4	9.31	3.84	2.17	1.66	1.28	0.708	0.295	5.66	MEAN

LOCATION - LAT 49 01 53 N DRAINAGE AREA, 7 500 km² INTERNATIONAL GAUGING STATION
LONG 98 16 40 W REGULATED

PEMBINA RIVER NEAR WINDYGATES - STATION NO 05OB007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	45.6 ON APR 21	0 8 ON FEB 21 *	80 900	1962
1963	---	7.22 ON JUN 8	0 8 ON JAN 29	82 100	1963
1964	---	9.15 ON MAY 10	0 8 ON JAN 20	58 300	1964
1965	---	39.1 B ON APR 14	0 8 ON JAN 1	141 000	1965
1966	---	48.1 B ON APR 3	0.0458 ON NOV 30	180 000	1966
1967	53.5 AT 09 00 CST ON APR 21	49.0 ON APR 21	0 ON SEP 11	120 000	1967
1968	21.1 B AT 07 20 CST ON MAR 24	16.7 B ON MAR 24	0 8 ON JAN 23	113 000	1968
1969	231 AT 16 06 CST ON APR 19	228 ON APR 19	0.3858 ON MAR 5	433 000	1969
1970	108 AT 09 53 CST ON APR 28	104 ON APR 28	0.2048 ON DEC 31	392 000	1970
1971	---	167 B ON APR 10	0.1908 ON JAN 1	355 000	1971
1972	---	45.9 B ON APR 12	0.0548 ON DEC 31	238 000	1972
1973	4.11 AT 17 18 CST ON AUG 6	2.94 ON JUL 12	0.0288 ON JAN 5	34 400	1973
1974	326 AT 11 30 CST ON APR 25 *	317 ON APR 25 *	0.1708 ON JAN 14	656 000	1974
1975	42.8 AT 14 30 CST ON MAY 14	42.2 ON MAY 14	0.0888 ON FEB 5	176 000	1975
1976	119 AT 00 35 CST ON APR 17	116 ON APR 17	0 8 ON DEC 7	363 000	1976
1977	4.33 AT 19 13 CST ON MAY 21	3.91 ON MAY 21	0 8 ON JAN 1	7 320	1977
1978	---	30.9 B ON APR 9	0 8 ON JAN 19	90 800	1978
1979	154 AT 17 58 CST ON MAY 2	152 ON MAY 2	0.0028 ON FEB 12	404 000	1979
1980	---				
1981	14.9 AT 22 02 CST ON MAY 22	9.256 ON APR 5	0 8 ON DEC 26	19 700	1980
1982	54.5 AT 16 55 CST ON JUN 6	8.12 ON MAY 23	0 8 ON JAN 1	29 300	1981
1983	32.4 AT 00 00 CST ON APR 8	44.9 ON JUN 6	0 8 ON JAN 1	140 000	1982
1984	13.9 AT 02 31 CST ON JUN 16	28.7 ON APR 8	0.0048 ON DEC 31	107 000	1983
		8.61 ON JUN 16	0 8 ON JAN 2	19 900	1984
1985	34.5 AT 13 29 CST ON APR 5	32.5 ON APR 5	0 8 ON JAN 1	108 000	1985
1986	34.9 AT 21 32 CST ON MAR 28	32.4 ON MAR 29	0.0198 ON FEB 10	141 000	1986
				179 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO 05OA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	0.072	0.051	0.005	0	0.006	---	---	---	---	1921
1925	---	---	---	1.20	0.245	2.34	---	---	---	---	---	---	---	1925
1926	---	---	---	---	---	---	---	---	---	---	---	---	---	1926
1927	---	---	5.29	3.34	6.52	1.69	1.84	0.423	0.057	0.077	---	---	---	1927
1928	---	---	1.98	0.467	0.206	1.82	4.29	0.189	0.069	0.082	0.042	---	---	1928
MEAN	---	---	3.64	1.67	1.76	1.53	1.98	0.207	0.044	---	---	---	---	MEAN
	LOCATION - LAT 49 13 45 N		DRAINAGE AREA 618 km^2							0.080	0.042	---	---	
	LONG 99 38 50 W		NATURAL FLOW											

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO 05OA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	0 E ON JUL 9 *	---	1921
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	22.6 ON MAY 13 *	0.003 ON SEP 23	---	1927
1928	---	19.7 ON JUL 10	---	---	1928
				---	MEAN

E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. OSRD008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	181	129	76.1	43.1	28.7	22.9	---	1957
1958	21.8	22.1	21.1	22.5	31.9	82.0	90.1	93.6	82.2	65.0	68.7	84.0	55.6	1958
1959	74.1	54.7	27.8	25.1	177	345	248	148	101	74.8	95.8	83.4	122	1959
1960	65.2	49.1	34.7	32.2	65.7	136	130	87.8	70.3	72.2	62.8	53.2	71.7	1960
1961	49.0	43.0	35.0	34.0	53.0	89.7	79.8	52.4	27.9	23.5	21.0	27.7	44.7	1961
1962	37.2	35.2	29.7	24.7	28.5	95.9	146	89.3	70.7	80.6	78.3	73.7	67.0	1962
1963	65.2	53.9	41.8	37.7	81.3	207	190	116	67.4	39.5	31.3	28.6	80.1	1963
1964	27.8	27.1	25.6	25.3	65.5	181	141	85.6	61.3	50.4	57.8	63.8	67.8	1964
1965	61.6	54.4	35.8	38.2	55.2	181	195	133	102	86.6	87.8	84.4	93.2	1965
1966	71.3	58.9	45.8	44.0	79.1	190	236	180	105	59.9	44.5	44.6	96.9	1966
1967	45.9	44.9	39.5	42.7	71.5	176	215	125	66.3	41.7	32.3	27.2	77.6	1967
1968	25.1	24.6	22.8	29.8	47.8	103	225	224	196	198	183	153	120	1968
1969	109	78.0	56.4	61.6	80.7	189	142	216	230	295	262	181	161	1969
1970	117	89.9	52.1	44.2	53.6	73.1	138	107	80.9	86.2	74.2	106	82.1	1970
1971	112	80.4	54.8	54.7	140	205	134	109	106	81.2	59.3	53.5	99.3	1971
1972	55.4	54.3	44.3	52.3	104	186	132	81.8	55.1	50.2	49.7	64.2	77.4	1972
1973	55.9	44.1	37.2	43.6	73.5	123	125	86.5	68.6	78.0	103	122	80.3	1973
1974	80.4	67.9	54.6	56.0	122	254	227	130	110	152	127	85.3	123	1974
1975	63.0	51.6	41.0	41.4	66.4	157	195	168	148	125	87.8	69.6	100	1975
1976	47.5	40.8	34.5	56.1	74.1	93.1	77.1	47.6	29.2	19.3	14.4	11.5	45.4	1976
1977	10.3	10.1	11.2	14.4	16.4	35.3	55.8	54.5	118	176	141	95.5	61.7	1977
1978	64.9	43.7	32.3	36.5	61.3	106	158	191	187	181	132	94.6	108	1978
1979	73.4	56.7	43.9	54.0	135	300	199	108	88.6	78.1	76.3	74.0	107	1979
1980	70.4	55.8	42.2	44.8	57.2	80.3	89.3	61.6	61.2	48.2	42.4	47.5	59.3	1980
1981	45.1	37.5	30.6	34.0	40.0	61.1	111	101	74.8	62.6	58.5	78.8	62.3	1981
1982	72.1	57.7	44.3	54.0	111	216	207	144	94.5	74.4	53.8	45.3	98.0	1982
1983	41.6	35.9	32.2	35.0	58.7	90.2	123	127	87.8	55.4	36.4	25.8	62.7	1983
1984	27.4	28.8	25.4	36.6	58.4	117	147	109	70.5	57.4	58.6	67.6	67.2	1984
1985	58.1	58.1	48.2	---	---	---	186	212	169	158	125	102	---	1985
1986	84.2	61.3	46.6	67.7	149	226	141	81.8	---	---	---	---	---	1986
MEAN	80.4	48.3	37.7	40.8	77.0	152	157	120	84.7	89.8	79.8	71.1	84.9	MEAN

LOCATION - LAT 52 01 49 N
LONG 96 23 37 W NATURAL FLOW

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. OSRD008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	96.6 ON AUG 11	20.2 ON MAR 27	1 750 000	1958
1959	---	379 ON JUN 9 *	18.7 ON APR 9	3 840 000	1959
1960	---	155 ON JUN 23	27.5 ON APR 19	2 270 000	1960
1961	---	95.1 ON JUN 16	20.7 ON NOV 5	1 410 000	1961
1962	---	159 ON JUL 8	19.7 ON MAY 1	2 110 000	1962
1963	---	224 ON JUN 21	28.5 ON DEC 1	2 530 000	1963
1964	---	194 ON JUN 11	25.3 ON MAR 19	2 140 000	1964
1965	---	216 ON JUL 3	33.1 A ON MAR 20	2 940 000	1965
1966	295 AT 16 30 CST ON JUL 4	250 ON JUL 4	37.6 R ON APR 11	3 060 000	1966
1967	---	255 A ON JUL 1	25.8 R ON DEC 30	2 450 000	1967
1968	---	238 ON JUL 21	20.4 R ON APR 6	3 790 000	1968
1969	---	306 E ON OCT 17	43.9 ON APR 7	5 070 000	1969
1970	156 AT 07 46 CST ON JAN 1	153 ON JAN 1	39.2 ON APR 13	2 590 000	1970
1971	---	224 A ON JUN 3	45.6 E ON APR 6	3 130 000	1971
1972	202 AT 15 23 CST ON JUN 13	200 ON JUN 13	16.1 R ON NOV 6	2 450 000	1972
1973	151 AT 16 30 CST ON JUN 25	151 ON JUN 30	34.3 E ON APR 9	2 530 000	1973
1974	300 AT 11 30 CST ON JUN 25	297 ON JUN 23	41.5 R ON APR 15	3 890 000	1974
1975	206 AT 12 14 CST ON JUN 30	206 ON JUN 30	35.0 R ON APR 12	3 170 000	1975
1976	101 AT 21 10 CST ON JUN 27	100 ON JUN 28	10.9 R ON DEC 30	1 440 000	1976
1977	182 AT 11 39 CST ON OCT 17	182 ON OCT 14	9.74 ON JAN 19 *	1 950 000	1977
1978	197 AT 00 42 CST ON AUG 8	197 ON AUG 7	28.3 B ON APR 7	3 400 000	1978
1979	318 AT 21 45 CST ON JUN 14 *	317 ON JUN 14	38.1 ON APR 13	3 390 000	1979
1980	101 AT 14 47 CST ON JUN 22	101 ON JUN 21	38.0 B ON APR 4	1 870 000	1980
1981	118 AT 21 46 CST ON JUL 30	118 ON JUL 31	28.3 ON MAR 25	1 960 000	1981
1982	---	251 E ON JUN 26	39.6 B ON APR 10	3 090 000	1982
1983	138 AT 17 42 CST ON JUN 27	139 ON JUN 27	24.3 B ON DEC 24	1 980 000	1983
1984	153 AT 04 08 CST ON JUL 22	151 ON JUL 22	24.4 B ON MAR 18	2 130 000	1984
1985	226 AT 13 19 CST ON AUG 4	225 ON AUG 6	43.0 ON APR 2	---	1985
1986	250 AT 16 32 CST ON JUN 11	249 ON JUN 11	---	---	1986
				2 680 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

PILOT CREEK NEAR PILOT MOUND - STATION NO 05OB025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0	0.031	0.007	0.085	0	0	0	0	---	---	0.015	1963
1964	---	---	0	0.421	0.028	0	0	0	0	0	---	---	0.055	1964
1965	---	---	0	0.584	0.122	0.008	0	0	0	0	---	---	0.088	1965
1966	---	---	0.451	0.824	0.253	0.014	0.034	0.003	0	0	---	---	0.196	1966
1967	---	---	0.004	0.601	0.311	0	0	0	0.052	0	---	---	0.120	1967
1968	---	---	0.184	0.109	0.017	0.007	0.029	0.285	0.330	0.075	---	---	0.131	1968
1969	---	---	0	4.65	0.520	0.409	0.332	0.003	0.021	0	---	---	0.731	1969
1970	---	---	0	1.69	1.05	0.336	0.041	0.002	0.026	0	---	---	0.390	1970
1971	---	---	0	1.30	0.312	0.152	0.250	0.013	0.159	0.057	---	---	0.277	1971
1972	---	---	0.549	1.11	0.428	0.086	0.012	0.018	0.003	0.001	---	---	0.271	1972
1973	---	---	0.015	0.006	0.011	0.002	0	0	0	0	---	---	0.004	1973
1974	---	---	0	3.75	2.62	0.389	0.017	0.001	0.001	0.001	---	---	0.841	1974
1975	---	---	0	0.410	0.203	0.044	0.004	0	0	0	---	---	0.082	1975
1976	---	---	0	2.19	0.178	0.003	0	0.001	0.002	0.004	---	---	0.291	1976
1977	---	---	0.001	0.002	0	0	0	0.002	0.002	0.001	---	---	0.001	1977
1978	---	---	0	0.430	0.042	0.001	0.001	0.001	0.001	0.001	---	---	0.059	1978
1979	---	---	0	2.58	0.886	0.038	0.003	0	0	0.001	---	---	0.434	1979
1980	---	---	0	0.050	0	0	0.005	0	0	0	---	---	0.007	1980
1981	---	---	0.119	0.004	0.002	0.009	0.003	0.004	0.003	0	---	---	0.018	1981
1982	---	---	0.033	0.295	0.013	0	0	0.010	0	0	---	---	0.043	1982
1983	---	---	0.227	0.283	0.001	0.001	0.007	0	0	0	---	---	0.085	1983
1984	---	---	0.001	0.024	0.006	0.003	0.013	0.007	0.002	0.001	---	---	0.007	1984
1985	---	---	0.570	0.488	0.030	0	0	0	0	0	---	---	0.148	1985
1986	---	---	0.304	0.391	0.114	0	0.002	0	0.015	0	---	---	0.103	1986
MEAN	---	---	0.107	0.926	0.298	0.085	0.031	0.015	0.026	0.008	---	---	0.182	MEAN

LOCATION - LAT 49 12 34 N LONG 98 57 06 W DRAINAGE AREA 147 km² REGULATED

PILOT CREEK NEAR PILOT MOUND - STATION NO 05OB025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	0.374 ON JUN 5	0.0 ON MAR 1 *	319	1963
1964	---	0.748 ON APR 9	0.0 ON MAR 1	1 170	1964
1965	---	1.89 B ON APR 12	0.0 ON MAR 1	1 880	1965
1966	---	1.82 B ON APR 1	0.0 ON MAR 1	4 180	1966
1967	---	1.43 ON APR 21	0.0 ON MAR 1	2 540	1967
1968	---	1.70 ON AUG 24	0.0 ON MAR 1	2 780	1968
1969	---	15.0 B ON APR 11	0.0 ON MAR 1	15 500	1969
1970	---	3.94 ON APR 25	0.0 ON MAR 1	8 250	1970
1971	---	4.53 ON APR 8	0.0 ON MAR 1	5 880	1971
1972	---	2.28 ON APR 12	0.0 ON MAR 1	5 740	1972
1973	---	0.048 ON MAY 10	0.0 ON MAR 1	93.1	1973
1974	---	22.7 ON APR 21 *	0.0 ON MAR 1	17 800	1974
1975	---	1.29 ON APR 29	0.0 ON MAR 1	1 730	1975
1976	---	5.32 ON APR 6	0.0 ON MAR 1	5 170	1976
1977	---	0.024 ON AUG 9	0.0 ON MAR 1	21.8	1977
1978	---	1.72 B ON APR 6	0.0 ON MAR 1	1 240	1978
1979	---	14.3 ON APR 23	0.0 ON MAR 1	9 170	1979
1980	---	0.3778 ON APR 7	0.0 ON MAR 1	143	1980
1981	---	0.524 ON MAR 17	0.0 ON MAR 1	388	1981
1982	1.85 AT 18 13 CST ON APR 12	1.47 ON APR 12	0.0 ON MAR 1	917	1982
1983	2.20 AT 09 00 CST ON JUL 27	1.47 B ON APR 1	0.0 ON MAR 1	1 370	1983
1984	2.92 AT 08 16 CST ON AUG 16	0.361 ON APR 10	0.0 ON MAR 1	151	1984
1985	3.728 AT 05 29 CST ON MAR 23 *	3.09 B ON MAR 23	0.0 ON MAR 1	3 150	1985
1986	3.028 AT 22 26 CST ON MAR 22	1.41 B ON MAR 22	0.0 ON MAR 1	2 170	1986
				3 880	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO 05PF049

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1908	---	---	---	---	176	157	157	158	180	182	--	---	162	1908
1909	---	---	---	---	183	150	156	148	157	175	---	---	162	1909
1910	---	---	---	---	312	270	187	159	159	175	---	---	207	1910
1911	---	---	---	---	246	262	272	276	272	233	---	---	280	1911
1912	---	---	---	---	270	283	---	---	---	---	---	---	---	1912
1914	---	---	---	---	---	294	299	290	275	272	---	---	---	1914
1915	---	---	---	---	---	294	299	296	287	258	280	---	---	1915
MEAN	---	---	---	---	237	244	225	221	215	212	280	---	198	MEAN

LOCATION - LAT 50 09 45 N LONG 95 52 05 W REGULATED

DATA CONTRIBUTED BY - CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PF049

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1908	---	199 ON MAY 1	153 ON JUN 9	2 570 000	1908
1909	---	214 ON MAY 14	123 ON AUG 8 *	2 570 000	1909
1910	---	317 ON MAY 15 *	156 ON AUG 13	3 290 000	1910
1911	---	276 ON JUL 20	200 ON OCT 20	4 130 000	1911
1912	---	289 ON JUN 4	251 ON MAY 1	---	1912
1914	---	---	---	---	1914
1915	---	---	---	---	1915
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 140 000	MEAN

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	---	---	---	---	---	---	1953
1958	---	---	---	---	---	---	---	---	---	0.385	0.376	0.467	---	1958
1959	0.189	0.160	0.858	1.89	2.16	1.15	0.798	0.441	0.348	1.53	0.628	0.263	0.872	1959
1960	0.187	0.186	0.635	3.32	1.18	1.37	0.436	0.312	0.183	0.381	0.568	0.177	0.737	1960
1961	0.082	0.144	0.285	1.19	0.959	0.254	0.251	0.095	0.259	0.479	0.319	0.125	0.369	1961
1962	0.013	0.049	0.249	2.11	3.77	3.16	0.121	0.307	0.257	0.214	0.215	0.214	0.891	1962
1963	0.058	0.093	1.83	2.76	1.26	3.18	0.272	0.135	0.141	0.193	0.400	0.148	0.855	1963
1964	0.085	0.014	0.117	1.84	2.10	1.59	0.856	0.230	0.672	1.02	0.386	0.179	0.722	1964
1965	0.120	0.106	0.086	1.97	3.35	1.26	2.27	0.343	1.08	1.54	0.685	0.428	1.11	1965
1966	0.178	0.144	0.187	3.44	3.05	0.541	0.591	0.339	0.429	0.537	0.292	0.223	0.832	1966
1967	0.198	0.052	0.509	4.86	1.61	0.453	0.189	0.262	0.153	0.337	0.241	0.238	0.738	1967
1968	0.315	0.241	0.863	1.74	1.24	2.32	2.38	1.76	1.45	0.789	0.638	0.174	1.16	1968
1969	0.202	0.220	0.242	3.84	1.06	1.77	0.619	0.362	0.338	0.586	0.342	0.373	0.826	1969
1970	0.279	0.223	0.285	2.31	4.38	1.59	0.282	0.176	0.364	0.476	0.616	0.291	0.940	1970
1971	0.104	0.157	0.227	2.86	1.28	0.812	0.395	0.237	0.227	0.408	0.583	0.224	0.609	1971
1972	0.183	0.113	0.080	1.78	1.09	0.201	0.113	0.175	0.424	0.375	0.371	0.126	0.417	1972
1973	0.178	0.174	0.713	0.672	0.523	0.640	0.234	0.281	0.631	0.800	0.403	0.238	0.442	1973
1974	0.144	0.196	0.200	3.01	2.57	0.602	0.124	0.632	0.386	0.493	0.337	0.212	0.744	1974
1975	0.234	0.261	0.281	2.33	1.33	1.42	0.493	0.221	0.280	0.298	0.245	0.154	0.627	1975
1976	0.173	0.199	0.570	2.03	0.443	0.905	0.231	0.112	0.120	0.154	0.126	0.108	0.428	1976
1977	0.100	0.113	0.424	0.872	0.865	0.293	0.271	0.162	0.748	0.526	0.575	0.299	0.438	1977
1978	0.222	0.192	0.198	2.78	0.751	0.229	0.277	0.228	0.308	0.278	0.221	0.151	0.484	1978
1979	0.141	0.168	0.287	3.35	1.49	0.635	0.273	0.181	0.173	0.179	0.273	0.182	0.608	1979
1980	0.159	0.180	0.183	1.22	0.295	0.147	0.150	0.192	0.369	0.435	0.243	0.155	0.307	1980
1981	0.123	0.154	0.189	0.446	0.812	1.17	0.243	0.247	1.39	1.24	0.553	0.328	0.575	1981
1982	0.156	0.054	0.449	2.85	1.09	0.547	0.508	0.316	0.289	1.43	0.536	0.710	0.747	1982
1983	0.174	0.093	1.01	1.52	1.46	0.819	0.216	0.256	0.235	0.363	0.437	0.559	0.598	1983
1984	0.373	0.313	0.463	1.20	0.576	1.84	0.355	0.147	0.112	0.532	0.339	0.783	0.569	1984
1985	0.277	0.104	0.587	0.829	1.07	1.42	0.343	0.720	0.941	0.551	0.368	0.203	0.617	1985
1986	0.196	0.197	1.39	2.81	2.32	0.253	0.509	0.221	0.313	0.363	0.266	0.206	0.757	1986
MEAN	0.171	0.153	0.469	2.19	1.57	1.08	0.484	0.325	0.450	0.575	0.400	0.274	0.679	MEAN

LOCATION - LAT 49 01 25 N LONG 95 58 40 W DRAINAGE AREA 157 km^2 REGULATED

PINE CREEK DIVERSION NEAR PINEY - STATION NO 05DD027

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1953	---	---	0.303RB ON DEC 8	---	1953
1958	---	---	---	---	1958
1959	---	4.45 ON MAY 7	0.042 ON JUL 31	27 500	1959
1960	---	13.3 ON APR 14	0.057B ON JAN 9	23 300	1960
1961	---	2.13 ON APR 24	0.028B ON JAN 28	11 800	1961
1962	---	10.4 ON JUN 10	0.008B ON JAN 28	28 100	1962
1963	---	7.38 ON JUN 9	0.023B ON JAN 31	27 000	1963
1964	---	4.98 ON MAY 10	0.006B ON FEB 19	22 800	1964
1965	---	11.4 ON MAY 6	0.042B ON MAR 25	34 900	1965
1966	---	10.3 ON APR 9	0.068 ON JUL 29	25 200	1966
1967	---	17.8 B ON APR 21 *	0.006B ON FEB 25	23 300	1967
1968	---	7.89 ON JUL 17	0.051B ON MAR 2	36 700	1968
1969	---	7.87B ON APR 9	0.176 ON AUG 23	26 100	1969
1970	---	9.85 ON MAY 27	0.102 ON AUG 15	29 600	1970
1971	---	9.06 ON APR 19	0.085B ON JAN 25	19 200	1971
1972	---	4.64 ON APR 21	0.025 ON AUG 30	13 200	1972
1973	---	2.52 ON SEP 25	0.037 ON JUL 22	13 900	1973
1974	9.09 AT 05 30 CST ON APR 21	8.89 ON APR 21	0.018 ON AUG 5	23 500	1974
1975	5.01 AT 05 50 CST ON APR 17	4.79 ON APR 17	0.144B ON DEC 5	19 800	1975
1976	3.74 AT 00 56 CST ON APR 7	3.45 ON APR 6	0.062 ON AUG 7	13 500	1976
1977	3.34 AT 06 13 CST ON SEP 25	3.11 ON SEP 25	0.059B ON JAN 9	13 800	1977
1978	6.51B AT 17 04 CST ON APR 9	5.03B ON APR 9	0.138B ON DEC 31	15 300	1978
1979	16.4 B AT 18 03 CST ON APR 19 *	14.3 B ON APR 19	0.119B ON JAN 14	19 200	1979
1980	2.59 AT 13 38 CST ON APR 7	2.44B ON APR 7	0.098 ON AUG 2	9 700	1980
1981	11.8 AT 01 28 CST ON SEP 8	11.1 ON SEP 8	0.118 ON AUG 20	18 100	1981
1982	6.30B AT 22 37 CST ON APR 15	7.28B ON APR 15	0.0108 ON FEB 9	23 800	1982
1983	4.96 AT 13 04 CST ON MAY 13	4.87 ON MAY 13	0.004B ON FEB 8	18 800	1983
1984	9.14 AT 02 24 CST ON JUN 10	8.41 ON JUN 9	0.001B ON MAR 10 *	18 000	1984
1985	5.93 AT 17 52 CST ON SEP 4	5.80 ON JUN 28	0.088B ON FEB 16	19 500	1985
1986	10.3 AT 05 23 CST ON MAY 1	9.76 ON MAY 1	0.121 ON AUG 19	23 900	1986
				21 400	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

PINE CREEK NEAR MELBOURNE - STATION NO 05LL014

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0.117	1.06	0.406	0.299	0.444	0.141	0.202	0.150	---	---	---	1965
1966	---	---	0.474	0.814	0.414	0.172	0.090	0.140	0.125	0.148	---	---	---	1966
1967	---	---	0.132	1.04	0.314	0.178	0.089	0.084	0.051	0.142	---	---	---	1967
1968	---	---	0.328	0.353	0.317	0.182	0.204	0.288	0.271	0.300	---	---	---	1968
1969	---	---	0.119	1.29	0.484	0.424	0.487	0.189	0.184	0.243	0.195	0.152	---	1969
1970	0.135	0.140	0.181	1.81	0.765	0.545	0.312	0.105	0.230	0.220	0.253	0.126	0.382	1970
1971	0.124	0.138	0.170	0.793	0.415	0.368	0.291	0.119	0.110	0.289	0.239	0.130	0.265	1971
1972	0.136	0.118	0.316	0.803	0.319	0.279	0.172	0.122	0.114	0.181	0.145	0.085	0.230	1972
1973	0.089	0.087	0.195	0.210	0.319	0.295	0.205	0.116	0.148	0.200	0.145	0.118	0.179	1973
1974	0.084	0.106	0.118	1.88	0.567	0.228	0.084	0.083	0.106	0.159	0.190	0.144	0.289	1974
1975	0.118	0.113	0.125	0.797	0.425	0.225	0.085	0.188	0.205	0.211	0.184	0.119	0.228	1975
1976	0.129	0.135	0.184	1.88	0.210	0.243	0.091	0.068	0.075	0.103	0.132	0.098	0.258	1976
1977	0.122	0.138	0.203	0.201	0.780	0.320	0.302	0.143	0.275	0.213	0.197	0.184	0.258	1977
1978	0.184	0.134	0.308	0.949	0.438	0.235	0.276	0.180	0.170	0.197	0.204	0.188	0.284	1978
1979	0.157	0.147	0.171	1.97	0.773	0.344	0.127	0.121	0.072	0.184	0.238	0.169	0.389	1979
1980	0.148	0.148	0.181	0.448	0.177	0.118	0.109	0.275	0.161	0.227	0.186	0.110	0.188	1980
1981	0.097	0.185	0.198	0.180	0.196	0.244	0.095	0.125	0.122	0.196	0.185	0.110	0.159	1981
1982	0.093	0.106	0.146	0.533	0.245	0.167	0.335	0.105	0.185	0.241	0.147	0.119	0.202	1982
1983	0.110	0.102	0.133	1.59	0.300	0.242	0.189	0.071	0.095	0.205	0.197	0.119	0.278	1983
1984	0.094	0.118	0.218	0.275	0.288	0.284	0.125	0.086	0.077	0.187	0.169	0.102	0.187	1984
1985	0.084	0.087	0.438	0.302	0.136	0.179	0.084	0.385	0.198	0.198	0.137	0.117	0.198	1985
1986	0.102	0.107	0.586	0.820	0.497	0.171	0.139	0.183	0.180	0.240	0.249	0.184	0.287	1986
MEAN	0.117	0.124	0.225	0.871	0.399	0.280	0.195	0.147	0.152	0.198	0.187	0.130	0.247	MEAN

LOCATION - LAT 49 54 00 N
LONG 99 12 30 W

DRAINAGE AREA 294 km^2
NATURAL FLOW

PINE CREEK NEAR MELBOURNE - STATION NO. 05LL014

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	4.11 B ON APR 14	---	---	1965
1966	---	3.14 ON APR 1	---	---	1966
1967	---	5.52 ON APR 10	---	---	1967
1968	---	1.57 ON MAR 26	---	---	1968
1969	---	5.86 E ON APR 13	---	---	1969
1970	13.2 AT 14:22 CST ON APR 26	9.94 ON APR 27	0.040 ON AUG 28	12 100	1970
1971	4.13 AT 23:49 CST ON APR 7	3.37 ON APR 8	0.074 ON AUG 29	8 370	1971
1972	3.14 AT 23:14 CST ON APR 10	2.76 ON APR 11	0.059 ON SEP 4	7 280	1972
1973	0.719 AT 02:59 CST ON MAY 7	0.697 ON MAY 7	0.059 ON JUL 23	5 630	1973
1974	10.9 AT 17:45 CST ON APR 18	9.66 ON APR 19	0.024 ON AUG 18 *	9 120	1974
1975	3.79 AT 15:10 CST ON APR 15	2.97 ON APR 15	0.028 ON JUL 15	7 200	1975
1976	10.6 AT 18:18 CST ON APR 7	8.58 ON APR 8	0.045 ON AUG 7	8 150	1976
1977	6.12 AT 20:15 CST ON MAY 19	3.88 ON MAY 20	0.057 ON AUG 24	8 150	1977
1978	6.29 AT 12:07 CST ON APR 7	3.54 ON APR 7	0.096 ON AUG 23	8 940	1978
1979	20.1 AT 16:20 CST ON APR 21 *	14.4 ON APR 21 *	0.036A ON AUG 31	11 600	1979
1980	1.31 AT 11:05 CST ON APR 7	1.10 ON AUG 21	0.068 ON AUG 2	5 940	1980
1981	0.670 AT 08:15 CST ON JUN 25	0.512 ON JUN 25	0.068 ON JUL 21	5 020	1981
1982	1.79 AT 10:51 CST ON APR 17	1.37 ON APR 15	0.046 ON AUG 6	6 370	1982
1983	8.68 AT 17:51 CST ON APR 9	6.91 ON APR 10	0.051 ON AUG 19	8 780	1983
1984	0.959 AT 04:03 CST ON JUN 15	0.756 ON JUN 15	0.037 ON AUG 25	5 270	1984
1985	2.65 B AT 13:21 CST ON MAR 27	1.73 B ON MAR 26	0.039 ON APR 18	6 190	1985
1986	4.15 AT 11:42 CST ON MAR 30	2.74 ON MAR 30	0.074 ON JUL 26	8 430	1986
				7 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK - STATION NO. 05OD032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	0.781	0.431	0.423	0.629	0.290	---	1928
1929	0.142	0.085	0.544	1.46	1.05	0.803	0.331	0.178	0.277	0.389	0.572	---	---	1929
1930	---	---	---	2.32	3.13	1.24	1.71	0.147	0.195	0.412	0.916	---	---	1930
1931	---	---	---	2.01	1.20	0.402	0.249	0.273	0.398	0.517	0.812	---	---	1931
1932	---	---	---	2.77	1.38	0.408	0.482	0.314	0.334	0.852	---	---	---	1932
1933	---	---	---	7.34	2.58	0.826	0.155	0.111	0.157	0.173	0.254	---	---	1933
1934	---	---	---	0.980	0.504	0.522	0.153	0.129	0.157	0.456	---	---	---	1934
1935	---	---	---	1.90	1.09	0.582	0.726	0.333	0.315	0.317	---	---	---	1935
1936	---	---	---	3.01	0.981	0.622	0.132	0.089	0.247	0.198	0.178	0.100	---	1936
1937	---	---	---	2.70	2.48	0.470	1.15	0.501	0.245	0.304	---	---	---	1937
1938	---	---	0.617	1.62	3.23	0.611	0.227	0.157	0.112	0.171	0.172	---	---	1938
1939	---	---	---	0.528	0.636	0.530	0.127	0.128	0.141	0.202	0.204	---	---	1939
1940	---	---	---	0.640	0.739	0.603	0.204	0.142	0.231	0.302	0.761	0.247	---	1940
1941	0.169	0.151	0.187	2.65	0.595	1.30	0.209	0.188	4.45	1.71	0.384	0.215	1.01	1941
1942	0.062	0.166	1.56	2.23	2.32	0.691	0.276	0.799	2.07	0.559	0.372	0.197	0.943	1942
1943	0.166	0.197	0.159	3.34	2.53	3.33	0.727	0.296	0.372	0.356	0.382	0.175	1.00	1943
1944	0.146	0.166	0.170	1.74	1.45	2.84	0.604	1.68	1.11	0.578	1.52	0.322	1.02	1944
1945	0.226	0.208	3.15	2.31	1.73	0.807	1.58	0.839	3.17	0.791	0.438	0.228	1.29	1945
1946	0.223	0.212	1.86	1.52	1.27	0.471	0.821	0.175	0.408	0.808	0.399	0.246	0.688	1946
1947	0.246	0.250	0.275	1.37	1.56	3.33	0.303	0.605	1.02	1.31	0.486	0.313	0.921	1947
1948	0.271	0.238	0.310	4.81	1.45	0.678	1.22	1.34	0.225	0.250	0.394	0.296	0.955	1948
1949	0.286	0.246	0.294	3.24	1.47	0.542	0.457	0.471	0.256	1.02	0.775	0.306	0.780	1949
1950	0.243	0.245	0.314	3.95	6.19	2.13	1.61	0.414	2.43	1.85	0.548	0.308	1.67	1950
1951	0.263	0.230	0.209	3.23	1.80	0.455	0.222	0.709	0.830	0.626	0.312	0.202	0.757	1951
1952	0.152	0.146	0.184	0.951	0.669	0.693	0.835	0.238	0.185	0.240	0.325	0.217	0.401	1952
1953	0.192	0.191	0.396	1.03	1.53	1.33	0.137	0.028	0.106	---	---	---	---	1953
MEAN	0.199	0.195	0.683	2.23	1.74	1.05	0.583	0.425	0.763	0.577	0.516	0.244	0.953	MEAN

LOCATION - LAT 48 59 35 N, LONG 95 55 04 W
DRAINAGE AREA 197 km^2
NATURAL FLOW
INTERNATIONAL GAUGING STATION

PINE CREEK NEAR PINE CREEK - STATION NO 05OD032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	3.268 ON APR 8	---	---	1929
1930	---	12.7 ON MAY 13	---	---	1930
1931	6.48 AT 21:30 CST ON APR 7	6.00 ON APR 7	---	---	1931
1932	7.258 AT 23:00 CST ON APR 10	6.998 ON APR 10	---	---	1932
1933	14.2 AT 12:00 CST ON MAY 25	13.0 ON MAY 25	---	---	1933
1934	---	1.938 ON APR 8	---	---	1934
1935	4.08 AT 17:30 CST ON APR 27	3.85 ON APR 27	---	---	1935
1936	14.6 AT 13:00 CST ON APR 17	12.7 ON APR 17	---	---	1936
1937	13.8 AT 23:00 CST ON MAY 1	13.1 ON MAY 1	---	---	1937
1938	10.3 AT 11:00 CST ON MAY 10	10.0 ON MAY 10	---	---	1938
1939	1.39 AT 18:00 CST ON APR 27	1.36 ON APR 27	---	---	1939
1940	1.67 ON MAY 1	1.56 ON APR 30	---	---	1940
1941	20.0 AT 12:00 CST ON SEP 25 *	18.8 ON SEP 25 *	0.0318 ON DEC 31	31 800	1941
1942	13.1 AT 20:00 CST ON APR 29	11.6 ON APR 30	0 8 ON JAN 5 *	29 700	1942
1943	11.3 AT 01:00 CST ON APR 9	11.0 ON APR 9	0.1258 ON MAR 16	31 500	1943
1944	7.73 AT 07:00 CST ON JUN 8	7.50 ON JUN 8	0.1258 ON JAN 5	32 100	1944
1945	15.1 AT 04:00 CST ON MAR 28	14.2 ON MAR 28	0.1988 ON JAN 29	40 800	1945
1946	---	7.50E ON MAR 22	0.139 ON AUG 6	21 700	1946
1947	16.7 AT 15:00 CST ON JUN 11	14.4 ON JUN 11	0.215 ON JUL 23	29 000	1947
1948	---	16.7 ON APR 18	0.201 ON SEP 28	30 200	1948
1949	10.9 AT 20:00 CST ON APR 10	9.06 ON APR 10	0.170 ON OCT 4	24 800	1949
1950	17.8 AT 04:00 CST ON APR 24	14.3 ON APR 24	0.2278 ON JAN 23	52 800	1950
1951	7.70E ON APR 6	7.38E ON APR 7	0.139 ON JUL 26	23 900	1951
1952	2.78 AT 13:00 CST ON JUL 5	2.72 ON JUL 5	0.130 ON SEP 21	12 700	1952
1953	3.85 AT 20:00 CST ON MAY 13	3.45 ON MAY 13	0 ON AUG 19	---	1953
				30 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK STATION - STATION NO 05LL007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.783	2.58	1.75	0.734	0.450	0.301	0.625	1.47	---	---	1.46	1959
1960	---	---	0.142	8.55	1.85	0.831	0.443	0.440	0.376	0.501	---	---	2.78	1960
1961	---	---	0.972	2.28	1.72	0.524	0.301	0.126	0.348	0.489	---	---	1.38	1961
1962	---	---	0.116	3.57	1.60	1.45	0.454	0.365	0.337	0.513	---	---	1.87	1962
1963	---	---	1.23	1.94	1.20	2.38	0.980	0.425	0.373	0.497	---	---	1.88	1963
1964	---	---	0.142	2.84	1.45	1.16	0.788	0.382	0.611	0.568	---	---	1.39	1964
1965	---	---	0.335	5.81	1.79	1.41	0.955	0.401	1.04	0.703	---	---	2.32	1965
1966	---	---	0.688	3.20	1.84	0.805	0.515	0.782	0.740	0.650	---	---	1.82	1966
1967	---	---	0.107	4.05	1.29	0.873	0.404	0.240	0.153	0.892	---	---	1.52	1967
1968	---	---	1.14	2.00	1.19	0.487	0.552	1.17	0.829	0.679	---	---	1.20	1968
1969	---	---	0.012	5.18	1.78	1.14	2.19	0.833	0.433	0.782	---	---	2.00	1969
1970	---	---	0.381	7.21	4.85	1.48	1.32	0.526	0.990	0.723	---	---	3.42	1970
1971	---	---	0.544	4.44	1.89	1.67	1.17	0.383	0.328	1.22	---	---	2.12	1971
1972	---	---	1.00	3.15	1.67	1.37	0.611	0.520	0.380	0.441	---	---	1.78	1972
1973	---	---	0.540	0.663	1.80	1.22	0.845	0.676	0.609	0.721	---	---	1.01	1973
1974	---	---	0.011	6.96	4.00	0.887	0.237	0.137	0.476	0.465	---	---	2.94	1974
1975	---	---	0.473	3.48	2.32	0.983	0.381	1.35	1.73	0.786	---	---	1.80	1975
1976	---	---	0.584	8.50	0.956	0.841	0.281	0.152	0.218	0.775	---	---	2.89	1976
1977	---	---	0.851	1.28	2.30	1.11	0.804	0.585	1.26	0.857	---	---	1.34	1977
1978	---	---	0.388	3.50	1.67	1.16	---	---	---	---	---	---	1.67	1978
1979	---	---	0.463	8.14	4.44	1.45	---	---	---	---	---	---	3.80	1979
1980	---	---	0.442	1.94	0.852	0.388	---	---	---	---	---	---	0.901	1980
1981	---	0.276	0.707	0.889	0.953	0.588	---	---	---	---	---	---	0.878	1981
1982	---	---	0.507	3.01	1.22	0.800	---	---	---	---	---	---	1.38	1982
1983	---	---	0.341	5.84	1.42	1.11	---	---	---	---	---	---	2.11	1983
1984	---	---	0.884	1.45	1.27	0.975	---	---	---	---	---	---	1.14	1984
1985	---	---	1.14	1.42	0.837	0.734	---	---	---	---	---	---	1.03	1985
1986	---	---	2.09	3.85	3.28	0.544	---	---	---	---	---	---	2.44	1986
MEAN	---	0.276	0.800	3.84	1.88	1.05	0.719	0.508	0.618	0.712	---	---	1.83	MEAN

LOCATION - LAT 50 03 40 N
LONG 98 56 49 W
DRAINAGE AREA 836 km^2
NATURAL FLOW

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	7.168 ON MAR 30	0.1138 ON MAR 1	15 400	1959
1960	---	32.3 ON APR 12	0.1428 ON MAR 1	29 400	1960
1961	---	3.65 ON APR 23	0.2838 ON MAR 1	14 500	1961
1962	---	13.1 ON APR 20	0.1138 ON MAR 1	17 600	1962
1963	---	6.26 ON JUN 11	0.1708 ON MAR 1	17 700	1963
1964	---	6.578 ON APR 14	0.1428 ON MAR 1	14 600	1964
1965	---	43.6 ON APR 14	0.2838 ON MAR 1	24 500	1965
1966	---	10.6 B ON APR 1	0.2108 ON MAR 1	17 100	1966
1967	---	8.988 ON APR 15	0.0888 ON MAR 1	16 000	1967
1968	---	5.528 ON MAR 28	0.282 ON JUN 28	12 700	1968
1969	---	29.7 ON APR 14	0.0048 ON MAR 28	21 100	1969
1970	---	40.5 ON APR 28	0.3918 ON MAR 1	35 000	1970
1971	---	13.3 ON APR 10	0.5448 ON MAR 1	22 400	1971
1972	---	6.438 ON APR 12	0 B ON MAR 1 *	18 800	1972
1973	---	3.86 ON MAY 7	0.0288 ON MAR 1	10 600	1973
1974	---	26.1 ON APR 20	0.0118 ON MAR 1	31 000	1974
1975	---	10.5 B ON APR 16	0.4738 ON MAR 1	19 000	1975
1976	---	21.5 B ON APR 8	0.368 ON JUN 4	28 300	1976
1977	---	5.80 ON MAY 22	0.215 ON JUN 11	14 100	1977
1978	---	7.088 ON APR 11	0.3148 ON MAR 1	17 600	1978
1979	---	44.3 B ON APR 22 *	0.4288 ON MAR 1	38 000	1979
1980	---	3.238 ON APR 8	0.247 ON JUN 21	5 490	1980
1981	1.57 AT 10 10 CST ON JUN 17	1.37 ON JUN 18	0.5268 ON MAR 8	5 250	1981
1982	---	7.808 ON APR 15	0.4258 ON MAR 1	14 500	1982
1983	---	17.8 B ON APR 10	0.3058 ON MAR 25	22 200	1983
1984	3.238 AT 06 23 CST ON MAR 27	3.158 ON MAR 27	0.4128 ON MAR 1	12 100	1984
1985	3.388 AT 14 14 CST ON MAR 31	3.258 ON MAR 24	0.1258 ON MAR 1	10 900	1985
1986	11.7 AT 12 00 CST ON MAY 6 *	11.0 ON MAY 6	0.4048 ON MAR 19	25 800	1986
				19 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	3.25	0.528	---	---	---	---	---	---	---	1936
1943	---	---	---	23.0	1.73	1.26	0.387	0.104	0.058	0.096	---	---	---	1943
1944	---	---	0	0.480	0.247	0.657	0.801	0.171	0.160	0.097	---	---	---	1944
1945	---	---	1.35	1.02	0.523	0.612	0.917	0.150	0.030	0.107	---	---	---	1945
1946	---	---	---	7.89	0.758	0.335	2.52	0.161	0.036	0.328	---	---	---	1946
1947	---	---	0	14.7	2.55	7.71	3.81	0.564	0.318	0.244	---	---	---	1947
1948	---	---	---	---	10.2	1.81	0.983	0.580	0.186	---	---	---	---	1948
1949	---	---	0	7.85	0.751	2.52	0.400	0.408	0.051	0.222	---	---	---	1949
1950	---	---	0.668	11.3	5.90	2.58	3.29	3.32	0.574	0.386	---	---	---	1950
1951	---	---	0	11.6	8.77	0.928	0.687	0.238	0.248	0.561	---	---	---	1951
1952	---	---	0.269	5.73	0.983	0.486	0.515	0.136	0.879	0.165	---	---	---	1952
1953	---	---	---	8.10	1.61	12.0	4.32	0.765	0.121	0.317	---	---	---	1953
1954	---	---	0	3.50	2.47	14.8	24.0	2.44	2.49	4.53	2.71	---	---	1954
1955	---	---	---	23.9	30.8	16.5	7.64	1.07	1.25	0.143	---	---	---	1955
1956	---	---	---	17.5	7.18	1.95	2.06	0.747	0.223	1.51	1.37	1.06	---	1956
1957	1.02	1.02	1.55	5.34	2.33	0.771	0.425	0.170	3.00	1.78	0.335	0.089	1.48	1957
1958	0.005	0.001	1.11	6.52	0.896	0.072	0.110	0.027	0.020	0.580	0.254	0	0.796	1958
1959	0	0	0.634	0.546	0.133	0.045	0.023	0.005	0.252	0.115	0.111	0.045	0.159	1959
1960	0	0	0.011	6.91	0.636	0.367	0.144	0.115	0.133	1.05	0.373	0.113	0.813	1960
1961	0.048	0.047	0.407	0.721	0.236	0.073	0.022	0.003	0.002	0.005	0.039	0.058	0.138	1961
1962	0.055	0.057	0.058	0.882	0.076	0.427	0.080	0.225	0.007	0	0	0	0.155	1962
1963	0	0	1.29	0.597	0.405	0.996	0.899	0.489	0.251	0.280	0.442	0.320	0.497	1963
1964	0.245	0.086	0.037	6.03	2.96	0.786	0.210	0.200	0.486	0.763	0.422	0.125	1.03	1964
1965	0.083	0.082	0.117	8.18	0.612	0.916	2.22	0.295	1.25	1.14	0.436	0.383	1.30	1965
1966	0.178	0.024	0.792	7.19	1.95	0.944	0.320	0.238	0.306	0.393	0.283	0.421	1.08	1966
1967	0.478	0.505	0.804	6.29	2.23	0.170	0.064	0.017	0.016	0.077	0.033	0.040	0.889	1967
1968	0.162	0.186	2.59	1.32	0.183	0.015	0.004	0.034	0.076	0.054	0.050	0.088	0.396	1968
1969	0	0	0	20.0	2.29	0.835	2.93	0.553	0.135	0.304	1.22	0.339	2.37	1969
1970	0.155	0.419	0.485	10.6	10.1	1.53	0.833	0.442	0.647	0.585	0.543	0.387	2.23	1970
1971	0.351	0.207	0.303	4.87	0.935	0.722	0.638	0.110	0.901	0.777	0.301	0.163	0.852	1971
1972	0.097	0.078	5.17	7.27	1.06	0.583	0.158	0.229	0.362	0.552	0.300	0.062	1.33	1972
1973	0.023	0.045	0.376	0.429	0.327	0.089	0.142	0.102	0.331	0.721	0.246	0.179	0.251	1973
1974	0.108	0.122	0.150	23.8	9.99	2.42	0.610	0.134	0.062	0.486	0.428	0.271	3.20	1974
1975	0.189	0.037	0.009	9.06	15.5	4.10	0.678	0.436	4.59	3.75	1.78	0.646	3.41	1975
1976	0.456	0.607	0.556	66.1	9.10	10.4	2.47	0.465	1.87	1.64	0.473	0.313	7.78	1976
1977	0.253	0.220	0.325	0.928	0.276	0.083	0.058	0.018	0.089	0.123	0.056	0.032	0.206	1977
1978	0.044	0.037	0.080	3.87	0.481	0.118	0.214	0.025	0.151	0.287	0.082	0.032	0.450	1978
1979	0.012	0.010	0.009	8.81	8.21	0.856	0.340	0.059	0.024	0.405	0.137	0.042	1.59	1979
1980	0.012	0.008	0.034	3.35	0.148	0.040	0.248	0.031	0.010	0.043	0.268	0.077	0.351	1980
1981	0.064	0.056	1.02	0.321	0.045	0.015	0.002	0.002	0.001	0.003	0.006	0.003	0.129	1981
1982	0	0	0.013	8.29	0.987	0.100	0.010	0.005	0.008	0.311	0.031	0.032	0.806	1982
1983	0.059	0.070	0.077	12.4	3.64	1.23	0.151	0.016	0.860	0.032	0.021	0.061	1.54	1983
1984	0.019	0.087	1.43	0.751	0.296	0.029	0.004	0.002	0.116	0.156	0.053	0.010	0.247	1984
1985	0.002	0.002	1.79	7.75	1.45	0.121	0.061	0.619	0.202	0.380	0.240	0.189	1.07	1985
1986	0.335	0.314	5.91	2.32	3.39	1.26	0.294	0.035	0.027	0.416	0.601	0.047	1.26	1985
MEAN	0.148	0.144	0.775	8.81	3.52	2.10	1.52	0.382	0.518	0.605	0.426	0.182	1.26	MEAN

LOCATION - LAT 49 35 40 N DRAINAGE AREA 4 200 km^2
LONG 100 56 30 W REGULATED

REMARKS - SOME FLOW WILL BYPASS THE GAUGE AT VERY HIGH STAGES. DATA PRIOR TO 1958 WERE PUBLISHED UNDER STATION NO. 05NG006

PIPESTONE CREEK NEAR PIPESTONE - STATION NO 05NG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1943	---	56.4 ON APR 10	---	---	1943
1944	---	2.94 ON JUN 29	0 B ON MAR 1 *	---	1944
1945	---	4.08 B ON MAR 23	---	---	1945
1946	---	28.2 B ON APR 1	0 ON SEP 21	---	1946
1947	---	36.2 ON JUN 27	0 B ON MAR 1	---	1947
1948	---	37.1 ON APR 23	---	---	1948
1949	---	26.1 ON APR 12	0 B ON MAR 1	---	1949
1950	---	32.3 ON APR 20	---	---	1950
1951	---	30.0 ON MAY 7	0 B ON MAR 1	---	1951
1952	---	18.0 ON APR 10	---	---	1952
1953	---	32.0 ON JUN 10	0 ON SEP 20	---	1953
1954	---	64.0 ON JUL 11	---	---	1954
1955	---	74.2 ON MAY 7	---	---	1955
1956	---	44.2 ON APR 19	---	---	1956
1957	---	8.27 B ON APR 8	0 ON AUG 18	46 700	1957
1958	---	20.1 B ON APR 5	0 B ON JAN 7	25 100	1958
1959	---	2.94 ON SEP 7	0 B ON JAN 1	5 040	1959
1960	---	20.9 B ON APR 14	0 B ON JAN 1	25 700	1960
1961	---	0.9688 ON APR 11	0 ON AUG 18	4 360	1961
1962	---	4.15 ON AUG 11	0 ON OCT 1	4 910	1962
1963	---	9.51 B ON MAR 23	0 B ON JAN 1	15 700	1963
1964	---	19.3 B ON APR 16	0.023 ON AUG 6	32 400	1964
1965	---	25.8 ON APR 19	0.051 ON AUG 22	41 100	1965
1966	---	24.1 B ON APR 8	0 B ON MAR 2	34 100	1966
1967	---	23.0 B ON APR 15	0.006 ON AUG 30	28 000	1967
1968	---	6.94 B ON MAR 26	0 ON JUN 20	12 500	1968
1969	---	113 A ON APR 15	0 B ON JAN 1	74 800	1969
1970	---	29.7 A ON MAY 1	0.0918 ON JAN 13	70 400	1970
1971	---	15.8 B ON APR 12	0.008 ON AUG 27	26 900	1971
1972	---	20.4 B ON MAR 25	0.0283 ON DEC 31	41 900	1972
1973	2.01 AT 21 40 CST ON OCT 21	1.89 ON SEP 27	0.0142 ON JAN 10	7 910	1973
1974	74.2 AT 08 00 CST ON APR 23 *	73.1 ON APR 23	0.040 ON SEP 25	101 000	1974
1975	55.2 AT 15 22 CST ON APR 30	54.1 ON APR 30	0 ON SEP 17	107 000	1975
1976	---	153 B ON APR 12 *	0.232 ON AUG 23	246 000	1976
1977	1.57 AT 08 45 CST ON APR 16	1.50 ON APR 16	0.004 ON AUG 29	6 500	1977
1978	---	8.75 B ON APR 13	0.017 ON SEP 3	14 200	1978
1979	51.2 B AT 08 17 CST ON APR 28	47.9 B ON APR 28	0.0058 ON APR 7	50 000	1979
1980	---	10.4 B ON APR 13	0.006 ON SEP 16	11 100	1980
1981	---	1.87 B ON MAR 16	0 ON AUG 11	4 060	1981
1982	37.6 AT 12 14 CST ON APR 18	34.6 ON APR 18	0 B ON JAN 1	25 400	1982
1983	34.4 AT 17 27 CST ON APR 26	33.9 ON APR 26	0.0028 ON DEC 13	48 600	1983
1984	8.758 AT 08 00 CST ON MAR 25	8.63 B ON MAR 25	0 B ON JAN 22	7 820	1984
1985	24.5 B AT 10 55 CST ON APR 8	22.5 B ON APR 8	0.0018 ON FEB 11	33 600	1985
1986	16.6 B AT 11 52 CST ON MAR 23	14.5 B ON MAR 23	0.009 ON AUG 23	39 500	1986
				39 700	MEAN

A - MANUAL GAUGE
B - ICE CONDITIONS
(SEE REFERENCE INDEX)
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO 05NG024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	0.002	0.400	0.033	0.088	---	1982
1983	0.068	0.036	0.055	12.1	3.04	0.551	0.028	0.129	0.436	0.001	0.002	0.272	2.01	1983
1984	0.113	0.073	0.262	0.099	0.020	0.001	0	0.060	0.219	0.075	0.005	0.003	0.092	1984
1985	B	0	0.847	8.05	1.18	0.090	0.008	0.094	0.180	0.260	0.355	0.283	1.32	1985
1986	0.209	0.278	6.44	1.80	3.19	0.696	0.210	0.036	0.041	0.476	0.711	0.041	1.58	1986
MEAN	0.098	0.097	1.90	5.46	1.85	0.335	0.062	0.080	0.176	0.242	0.221	0.133	1.25	MEAN

LOCATION - LAT 49 50 28 N
LONG 101 23 48 W
DRAINAGE AREA 3 860 km^2
REGULATED

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO 05LJ031

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.572	0.335	0.004	0	0	0	0.024	---	---	0.116	1964
1965	---	---	0	1.04	0.394	0.208	0.036	0.011	0.161	0.133	---	---	0.246	1965
1966	---	---	0.099	1.89	1.49	0.185	0.163	0.006	0.004	0.002	---	---	0.477	1966
1967	---	---	0	0.982	1.38	0.072	0.004	0.001	0	0.034	---	---	0.310	1967
1968	---	---	0.421	0.868	0.080	0.012	0.023	0.032	0.011	0.006	---	---	0.180	1968
1969	---	---	0	2.40	0.175	0.040	0.548	0.383	0.023	0.229	---	---	0.470	1969
1970	---	---	0.010	2.33	3.01	0.419	0.401	0.208	0.010	0.087	---	---	0.808	1970
1971	---	---	0.040	2.26	0.331	1.87	0.681	0.160	0	0.021	---	---	0.661	1971
1972	---	---	0.044	0.992	0.941	0.246	0.115	0.403	0.611	0.291	---	---	0.453	1972
1973	---	---	0.037	0.031	0.009	0.025	0.004	0.002	0.026	0.058	---	---	0.024	1973
1974	---	---	0	0.547	4.83	2.53	0.156	0.011	0.014	0.028	---	---	1.01	1974
1975	---	---	0.252	1.39	2.07	1.20	0.184	0.080	0.759	0.520	---	---	0.812	1975
1976	---	---	0.218	2.77	1.34	1.51	0.612	0.270	0.363	0.036	---	---	0.883	1976
1977	---	---	0.095	0.050	0.049	0.006	0.011	0.003	0.023	0.970	---	---	0.153	1977
1978	---	---	0.210	0.824	0.543	0.167	0.159	0.075	0.007	0.006	---	---	0.248	1978
1979	---	---	0.048	1.92	3.47	1.27	0.067	0.026	0.001	0.060	---	---	0.855	1979
1980	---	---	0.184	0.344	0.007	0.024	0	0.132	0.002	0.139	---	---	0.104	1980
1981	---	---	0.259	0.116	0.015	0.007	0.171	0	0.043	0.199	---	---	0.102	1981
1982	---	---	0.160	0.245	0.018	0.002	0	0.002	0.055	0.283	---	---	0.097	1982
1983	---	---	0.230	0.573	0.255	0.586	0.327	0.079	0.024	0.141	---	---	0.268	1983
1984	---	---	0.227	0.154	0.030	0.012	0.146	0.027	0.197	0.079	---	---	0.109	1984
1985	---	---	0.221	1.652	0.038	0.057	0.028	0.076	0.100	0.469	---	---	0.205	1985
1986	---	---	0.545	1.51	1.61	0.511	0.174	0.074	0.284	0.227	---	---	0.615	1986
MEAN	---	---	0.144	1.07	0.975	0.476	0.174	0.089	0.119	0.181	---	---	0.401	MEAN

LOCATION - LAT 51 06 18 N DRAINAGE AREA 261 km²
LONG 100 52 57 W REGULATED SINCE 1972

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO 05LJ031

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	1.92 B ON APR 15	0 B ON MAR 1 +	2 450	1964
1965	---	3.31 ON APR 14	0 B ON MAR 1	5 200	1965
1966	---	4.19 B ON APR 5	0 B ON MAR 1	10 100	1966
1967	---	3.79 B ON APR 15	0 B ON MAR 1	6 550	1967
1968	---	1.85 B ON MAR 28	0 B ON MAR 1	3 620	1968
1969	---	5.66 B ON APR 15	0 B ON MAR 1	9 950	1969
1970	---	9.06 E ON APR 26	0 ON AUG 29	17 100	1970
1971	---	6.57 ON APR 12	0 ON AUG 30	14 000	1971
1972	---	3.03 B ON APR 17	0.0288 ON MAR 1	9 550	1972
1973	0.705 AT 06 00 CST ON OCT 3	0.426 ON OCT 3	0 ON JUL 31	505	1973
1974	13.4 AT 15 43 CST ON MAY 22 +	11.6 ON MAY 23 +	0 B ON MAR 1	21 400	1974
1975	9.37 AT 17 00 CST ON APR 26	7.25 ON APR 26	0.006 ON AUG 18	17 200	1975
1976	4.42 AT 21 45 CST ON APR 6	3.68 ON APR 9	0.001 ON OCT 18	18 700	1976
1977	3.71 AT 21 11 CST ON OCT 11	3.43 ON OCT 12	0 ON JUL 4	3 240	1977
1978	2.82 AT 22 58 CST ON APR 17	2.21 ON APR 18	0.001 ON SEP 10	5 250	1978
1979	---	6.82 B ON APR 22	0 ON JUL 28	18 100	1979
1980	---	0.8048 ON APR 14	0 ON MAY 16	2 200	1980
1981	13.3 AT 22 09 CST ON JUL 1	2.87 ON JUL 2	0 ON AUG 3	2 150	1981
1982	---	3.10 E ON OCT 1	0 ON JUN 17	3 050	1982
1983	6.76 B AT 18 40 CST ON APR 23	4.03 B ON APR 24	0 ON AUG 6	5 050	1983
1984	1.21 AT 21 41 CST ON MAY 3	0.855 ON JUL 30	0 ON JUN 29	2 310	1984
1985	2.91 B AT 22 17 CST ON APR 4	1.13 ON APR 14	0 ON AUG 8	4 330	1985
1986	4.41 B AT 18 13 CST ON MAR 28	3.26 B ON MAR 23	0 ON SEP 8	13 000	1986
				6 450	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
+ - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLUM CREEK NEAR SOURIS - STATION NO 05NG007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	4.00	14.4	12.3	6.15	4.05	3.76	2.88	1.78	1.25	---	1956
1957	0.293	0.170	0.312	4.01	4.70	3.57	2.02	1.67	1.25	1.55	0.835	0.010	2.38	1957
1958	0	0.066	0.072	3.20	2.58	0.577	0.165	0	0	0	0	0	0.619	1958
1959	0	0	0.095	0.070	0.013	0	0	0	0	0.004	0.028	0.008	0.023	1959
1960	0.004	0	0	1.20	0.945	0.583	0.076	0.008	0	0	0	0	0.349	1960
1961	0	0	0.010	0.062	0.030	0.003	0	0	0	0	0	0	0.013	1961
1962	0	0	0	0.080	0.005	0.003	0	0	0	0	0	0	0.011	1962
1963	0	0	0.006	0.011	0.015	0.398	0.020	0.004	0.001	0	0	0	0.056	1963
1964	0	0	0	0.359	0.225	0.007	0.003	0	0	0	0	0	0.074	1964
1965	0	0	0	0.451	0.184	0.142	0.228	0.128	0.280	0.202	0.085	0.041	0.188	1965
1966	0.003	0	0.037	0.935	3.12	0.807	0.336	0.215	0.081	0.019	0.012	0	0.706	1966
1967	0	0	0	0.587	0.580	0.466	0.136	0.002	0	0	0	0	0.217	1967
1968	0	0	0.086	0.077	0.001	0	0	0	0	0.005	0.010	0	0.021	1968
1969	0	0	0	5.68	12.1	1.82	2.00	1.43	0.859	0.818	0.677	0.367	3.08	1969
1970	0.124	0	0	0.997	11.5	5.39	2.85	1.90	1.84	1.22	1.21	0.284	3.24	1970
1971	0.048	0	0	0.564	3.05	2.85	1.67	0.557	0.523	0.824	0.217	0.018	1.34	1971
1972	0	0	0.215	2.03	3.97	1.84	0.551	0.188	0.132	0.082	0.030	0.001	1.10	1972
1973	0	0	0.017	0.026	0.089	0.032	0.009	0.004	0.005	0.017	0.013	0.001	0.025	1973
1974	0	0	0	1.67	16.0	5.57	0.956	0.483	0.505	0.543	0.382	0.167	3.20	1974
1975	0.050	0.001	0	1.11	16.2	5.93	2.09	2.03	3.96	4.96	4.29	3.26	4.93	1975
1976	2.60	1.65	0.750	55.4	28.8	8.54	5.58	1.27	1.15	0.845	0.588	0.264	12.7	1976
1977	0.033	0.001	0.064	0.804	0.745	0.215	0.091	0.005	0.115	0.037	0.024	0	0.258	1977
1978	0	0	0.013	0.498	0.285	0.085	0.110	0	0	0	0	0	0.118	1978
1979	0	0	0	0.443	3.18	2.86	0.356	0.017	0.062	0.056	0.036	0.007	0.871	1979
1980	0	0	0	0.151	0	0	0	0	0	0	0.013	0.012	0.018	1980
1981	0	0.032	0.007	0.001	0.001	0.004	0.001	0	0	0	0.001	0.001	0.002	1981
1982	---	---	0.074	0.526	0.183	0.135	0.009	0	0	0	---	---	0.115	1982
1983	---	---	0.002	0.422	0.056	0.157	0.096	0.027	0	0	---	---	0.084	1983
1984	---	---	0.005	0.007	0.037	0.006	0.001	0	0	0	---	---	0.007	1984
1985	---	---	0.059	0.082	0.032	0.005	0.001	0.009	0.024	0.049	---	---	0.032	1985
1986	---	---	0.103	0.180	1.54	0.647	0.492	0.189	0	0	---	---	0.387	1986
MEAN	0.128	0.077	0.064	2.77	4.02	1.86	0.862	0.456	0.445	0.455	0.398	0.219	1.21	MEAN

LOCATION - LAT 49 37 30 N DRAINAGE AREA 6 410 km²
LONG 100 18 20 W REGULATED

PLUM CREEK NEAR SOURIS - STATION NO 05NG007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	22.3 ON JUN 22	---	---	1956
1957	---	6.52 ON APR 27	0.0288 ON MAR 13	50 500	1957
1958	---	4.22 ON APR 14	0 B ON MAR 4 *	17 300	1958
1959	---	0.708 ON MAR 31	0 ON MAR 1	475	1959
1960	---	5.26 B ON APR 11	0 B ON MAR 1	7 380	1960
1961	---	0.2180 ON APR 3	0 ON MAR 1	276	1961
1962	---	0.3230 ON APR 21	0 ON MAR 1	240	1962
1963	---	1.53 ON JUN 15	0 ON MAR 1	1 180	1963
1964	---	1.06 ON APR 16	0 ON MAR 1	1 560	1964
1965	---	1.16 ON APR 14	0 B ON MAR 1	4 200	1965
1966	---	4.33 ON MAY 5	0 B ON MAR 1	15 000	1966
1967	1.16 AT 15 00 CST ON APR 23	1.07 ON APR 24	0 B ON MAR 1	4 600	1967
1968	---	0.3858 ON MAR 24	0 B ON MAR 1	448	1968
1969	24.5 AT 17 00 CST ON MAY 1	24.4 ON MAY 2	0 B ON MAR 1	65 300	1969
1970	17.7 AT 17 41 CST ON MAY 15	17.6 ON MAY 16	0 B ON MAR 1	68 600	1970
1971	3.96 AT 15 41 CST ON JUN 16	3.94 ON JUN 16	0 B ON MAR 1	26 400	1971
1972	6.94 B AT 17 30 CST ON APR 15	3.09 B ON APR 15	0 B ON MAR 1	23 300	1972
1973	0.236 AT 15 08 CST ON MAY 13	0.215 ON MAY 13	0 B ON MAR 1	528	1973
1974	---	21.4 ON MAY 11	0 B ON MAR 1	67 700	1974
1975	32.0 AT 04 36 CST ON MAY 14 *	31.1 ON MAY 13	0 B ON MAR 1	104 000	1975
1976	---	192 ON APR 20 *	0.142 ON OCT 18	289 000	1976
1977	---	1.47 B ON APR 8	0 ON JUL 1	5 480	1977
1978	3.11 B AT 16 46 CST ON APR 7	2.01 B ON APR 7	0 B ON MAR 1	2 520	1978
1979	5.39 AT 19 17 CST ON MAY 31	5.30 ON JUN 1	0 B ON MAR 1	18 400	1979
1980	0.7378 AT 16 36 CST ON APR 10	0.5730 ON APR 10	0 B ON MAR 1	392	1980
1981	---	0.0348 ON MAR 12	0 ON MAY 21	37.5	1981
1982	3.68 B AT 14 25 CST ON APR 15	3.13 B ON APR 15	0 B ON MAR 1	2 430	1982
1983	1.47 B AT 21 25 CST ON APR 9	1.26 B ON APR 9	0 B ON MAR 1	2 000	1983
1984	0.2018 AT 06 00 CST ON MAR 26	0.0898 ON MAR 26	0 B ON MAR 1	159	1984
1985	0.6628 AT 04 00 CST ON MAR 22	0.4298 ON MAR 22	0 B ON MAR 1	684	1985
1986	4.16 AT 23 05 CST ON MAY 31	3.46 ON MAY 7	0 B ON MAR 1	8 410	1986
				25 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLUM RIVER NEAR ROSENFELD - STATION NO. 05OC019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	9.82	1.06	0.065	0.309	0.002	0	0	---	---	1.36	1969
1970	---	---	0	19.6	5.72	10.4	---	---	---	---	---	---	---	1970
1971	---	---	0	17.5	0.205	0.193	0.041	0	0	0	---	---	2.19	1971
1972	---	---	1.26	4.30	0.075	0.001	0	0	0.001	0	---	---	0.695	1972
1973	---	---	0.493	0.036	0	1.65	0.020	0.002	0.570	0.340	---	---	0.385	1973
1974	---	---	0	27.5	11.1	0.375	0	0	0	0	---	---	4.82	1974
1975	---	---	0	2.54	0.806	0.127	0.054	0	0	0	---	---	0.436	1975
1976	---	---	0	10.5	0.057	0.968	0.014	0	0	0	---	---	1.46	1976
1977	---	---	0	0.072	0.205	0.154	0.013	0.005	0.057	0.065	---	---	0.071	1977
1978	---	---	0.053	7.91	0.277	0.561	0.040	0	0.175	0.025	---	---	1.11	1978
1979	---	---	0	35.6	3.49	0.836	0.228	0.017	0.001	0.016	---	---	4.93	1979
1980	---	---	0	1.83	0.005	0	0.098	0.001	0	0.006	---	---	0.221	1980
1981	---	---	1.06	0.152	0.109	0.032	0	0.002	0.005	0.109	---	---	0.185	1981
1982	---	---	0.389	5.76	0.080	0.175	0.070	0.005	0	0.085	---	---	0.807	1982
1983	---	---	1.86	7.37	0.080	0.062	0.032	0	0	0	---	---	1.18	1983
1984	---	---	0.114	0.295	0.018	0.020	0	0	0	0.009	---	---	0.056	1984
1985	---	---	4.09	0.408	0.043	0.029	0.028	0.285	0.147	0.106	---	---	0.647	1985
1986	---	---	3.70	1.83	0.861	0.023	0.018	0.001	0	0.004	---	---	0.819	1986
MEAN	---	---	0.730	8.52	1.35	0.873	0.057	0.015	0.056	0.045	---	---	1.26	MEAN

LOCATION - LAT 49 11 30 N DRAINAGE AREA 744 km²
LONG 97 24 00 W NATURAL FLOW

PLUM RIVER NEAR ROSENFELD - STATION NO. 05OC019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	53.6 B ON APR 11	0B ON MAR 1 *	29 200	1969
1970	---	76.7 B ON APR 18	0B ON MAR 1	---	1970
1971	186 AT 01 15 CST ON APR 12	152 B ON APR 11	0B ON MAR 1	46 500	1971
1972	---	15.6 B ON APR 14	0B ON MAR 1	14 800	1972
1973	20.4 AT 06 34 CST ON JUN 18	17.3 ON JUN 18	0B ON MAR 1	8 150	1973
1974	---	139 B ON APR 16	0B ON MAR 1	102 000	1974
1975	---	6.756 ON APR 17	0B ON MAR 1	9 230	1975
1976	75.6 B AT 15 41 CST ON APR 5	71.6 B ON APR 5	0B ON MAR 1	30 800	1976
1977	7.53 AT 01 40 CST ON MAY 30	4.47 ON MAY 30	0B ON MAR 1	1 510	1977
1978	---	35.5 B ON APR 9	0B ON MAR 1	23 500	1978
1979	217 AT 10 15 CST ON APR 20 *	193 ON APR 20 *	0B ON MAR 1	104 000	1979
1980	9.358 AT 13 15 CST ON APR 4	7.768 ON APR 5	0B ON MAR 1	4 680	1980
1981	---	2.508 ON MAR 14	0 ON MAY 1	3 920	1981
1982	---	32.7 B ON APR 14	0B ON MAR 1	17 000	1982
1983	32.2 B AT 17 16 CST ON APR 6	26.5 B ON APR 6	0B ON MAR 1	24 800	1983
1984	2.286 AT 15 10 CST ON MAR 31	1.678 ON MAR 31	0B ON MAR 1	1 200	1984
1985	30.6 B AT 17 35 CST ON MAR 19	27.5 B ON MAR 19	0B ON MAR 1	13 700	1985
1986	35.3 B AT 13 00 CST ON MAR 26	31.4 B ON MAR 26	0B ON MAR 1	17 300	1986
				26 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	---	11.6	13.0	---	1967
1968	11.9	10.8	8.55	17.7	122	145	86.1	82.6	76.3	64.9	65.7	45.0	62.6	1968
1969	25.8	18.4	14.9	34.8	94.0	92.5	64.3	141	177	153	86.4	39.6	75.0	1969
1970	19.7	15.9	13.2	11.7	41.3	32.6	35.9	26.7	16.2	20.3	33.9	29.1	24.8	1970
1971	21.7	16.3	13.2	35.5	141	53.7	22.0	25.0	17.3	14.6	22.6	24.9	34.2	1971
1972	20.1	16.3	13.9	17.8	196	60.2	27.0	15.3	10.6	9.84	10.9	11.6	36.0	1972
1973	11.9	11.7	11.2	16.3	71.0	52.6	37.6	17.6	12.1	17.9	28.9	27.6	26.4	1973
1974	16.0	14.8	13.6	17.9	141	96.3	26.6	12.2	11.2	16.3	20.9	16.0	34.2	1974
1975	14.7	13.0	11.3	12.3	63.2	85.8	62.3	49.6	96.4	70.4	37.0	21.1	44.8	1975
1976	15.1	12.8	11.6	24.5	33.9	32.3	18.3	9.79	7.30	6.80	7.76	7.71	15.7	1976
1977	7.10	7.15	6.83	9.83	22.9	18.8	36.5	40.8	36.0	43.1	31.5	20.6	23.7	1977
1978	15.1	12.6	11.2	12.2	47.5	46.7	36.0	27.8	23.7	50.4	53.3	32.5	31.2	1978
1979	20.1	15.0	13.2	16.2	145	246	76.5	20.6	13.9	13.8	17.3	17.5	51.4	1979
1980	15.8	14.1	12.8	16.6	50.8	24.0	12.9	11.3	14.6	21.6	23.5	17.2	19.5	1980
1981	13.9	11.6	10.3	11.3	25.6	46.6	83.1	52.6	16.2	13.1	26.7	37.4	29.4	1981
1982	22.9	16.7	13.4	16.4	125	89.5	50.2	24.5	16.2	18.3	22.5	21.3	37.7	1982
1983	18.2	16.0	14.9	16.3	100	101	109	46.1	16.3	14.5	14.4	13.6	40.7	1983
1984	13.5	13.9	11.9	16.5	54.3	54.6	44.1	22.5	14.0	18.4	27.1	24.0	26.4	1984
1985	20.9	17.9	14.9	18.4	86.1	74.6	50.7	26.5	26.2	35.7	40.1	26.1	37.6	1985
1986	18.9	16.2	14.6	40.6	147	86.5	23.5	15.7	14.1	18.8	19.9	19.7	34.8	1986
MEAN	17.1	14.2	12.5	19.5	80.4	76.1	46.3	35.3	32.7	33.6	30.1	23.4	36.3	MEAN

LOCATION - LAT 52 46 40 N DRAINAGE AREA 6 850 km²
LONG 96 45 10 W NATURAL FLOW

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO 05MD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	169 AT 23:00 CST ON MAY 30	185 ON MAY 30	8.92 ON APR 5	1 980 000	1968
1969	230 AT 04:00 CST ON AUG 29	223 ON AUG 25	13.2 ON APR 7	2 490 000	1969
1970	53.5 AT 18:32 CST ON MAY 23	53.2 ON MAY 23	10.7 ON APR 20	782 000	1970
1971	175 AT 22:20 CST ON MAY 10	174 ON MAY 9	12.2 ON APR 11	1 080 000	1971
1972	243 AT 16:30 CST ON MAY 11	242 ON MAY 11	8.33 ON OCT 16	1 140 000	1972
1973	83.2 AT 10:00 CST ON MAY 22	85.2 ON MAY 21	10.9 ON MAR 22	834 000	1973
1974	181 AT 10:00 CST ON MAY 27	181 ON MAY 26	9.46 ON AUG 26	1 080 000	1974
1975	199 AT 11:34 CST ON SEP 22	103 ON SEP 13	10.5 ON APR 12	1 420 000	1975
1976	---	39.1E ON APR 29	5.72 ON OCT 4 *	496 000	1976
1977	98.9 AT 13:06 CST ON JUL 22	55.4 ON JUL 23	5.85 ON MAR 23	748 000	1977
1978	85.3 AT 11:13 CST ON MAY 30	84.3 ON MAY 30	10.8 ON MAR 28	983 000	1978
1979	311 AT 13:28 CST ON JUN 8 *	308 ON JUN 8 *	12.0 ON APR 13	1 820 000	1979
1980	99.7 AT 04:20 CST ON MAY 18	58.3 ON MAY 13	9.57 ON AUG 21	817 000	1980
1981	---	92.9A ON JUL 5	9.53 ON MAR 28	927 000	1981
1982	182 AT 11:36 CST ON MAY 15	157 ON MAY 15	11.8 E ON MAR 10	1 190 000	1982
1983	150 AT 01:28 CST ON MAY 30	144 ON MAY 30	13.4 ON OCT 17	1 280 000	1983
1984	73.6 AT 22:11 CST ON MAY 31	68.5 ON JUN 3	11.7 A ON MAR 27	835 000	1984
1985	122 AT 19:06 CST ON MAY 17	119 ON MAY 17	13.4 ON APR 12	1 140 000	1985
1986	187 AT 08:26 CST ON MAY 15	184 ON MAY 14	14.1 ON SEP 7	1 100 000	1986
MEAN				1 150 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX) E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PORTAGE DIVERSION NEAR OAKLAND - STATION NO 05LL018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.5	0	0	0	0	0	---	---	12.4	1970
1971	---	---	0	11.3	0	0	0	0	0	0	---	---	1.38	1971
1972	---	---	7.08	103	7.47	0	0	0	0	0	---	---	14.5	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	144	97.0	9.98	3.22	0	0	0	---	---	31.6	1974
1975	---	---	0	43.7	145	61.8	0.106	0	0	0	---	---	31.3	1975
1976	---	---	0	475	211	4.11	0	0	0	0	---	---	85.3	1976
MEAN	---	---	1.01	118	71.8	10.8	0.475	0	0	0	---	---	25.2	MEAN

LOCATION - LAT 50 06 30 N
LONG 98 22 50 W REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR OAKLAND - STATION NO 05LL018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	294 AT 07:00 CST ON APR 26	282 ON APR 26	0 ON MAR 1 *	282 000	1970
1971	---	71.6 ON APR 19	0 ON MAR 1	29 200	1971
1972	---	237 ON APR 16	0 ON MAR 1	307 000	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	537 AT 04:00 CST ON APR 23	524 ON APR 23	0 ON MAR 1	659 000	1974
1975	256 AT 06:40 CST ON MAY 3	253 ON MAY 3	0 ON MAR 1	852 000	1975
1976	733 AT 14:30 CST ON APR 19 *	728 ON APR 19 *	0 ON MAR 1	1 810 000	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		534 000	MEAN

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO 05LL019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.4	0	0	0	0	0	---	---	24.8	1970
1971	---	---	0	12.1	0	0	0	0	0	0	---	---	2.98	1971
1972	---	---	7.55	102	7.79	0	0	0	0	0	---	---	28.9	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	143	93.6	10.4	3.43	0	0	0	---	---	81.5	1974
1975	---	---	0	43.6	144	63.5	0	0	0	0	---	---	32.9	1975
1976	---	---	0	489	198	2.29	0	0	0	0	---	---	186	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	1.62	0	0	0	0	0	0	---	---	0.389	1978
1979	---	---	0	85.5	147	34.2	0	0	0	0	---	---	61.8	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0	14.0	0	0	---	---	---	---	---	---	3.45	1982
1983	---	---	0	55.8	5.93	0	---	---	---	---	---	---	15.2	1983
1984	---	---	0	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	17.7	2.95	0	0	---	---	---	---	---	---	5.22	1985
1986	---	---	5.02	22.1	15.8	0	---	---	---	---	---	---	11.0	1986
MEAN	---	---	1.84	58.2	38.5	5.45	0.312	0	0	0	---	---	25.1	MEAN

LOCATION - LAT 49 58 00 N
LONG 98 22 50 W REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	262 E ON APR 26	0 ON MAR 1 *	262 000	1970
1971	---	76.5 ON APR 19	0 ON MAR 1	31 400	1971
1972	---	228 ON APR 16	0 ON MAR 1	305 000	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	515 ON APR 23	0 ON MAR 1	649 000	1974
1975	252 AT 03 10 CST ON MAY 3	244 ON MAY 3	0 ON MAR 1	663 000	1975
1976	---	736 E ON APR 19 *	0 ON MAR 1	1 780 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	59.5 AT 08 15 CST ON APR 11	30.0 ON APR 11	0 ON MAR 1	4 210	1978
1979	357 AT 07 42 CST ON APR 30	353 ON APR 30	0B ON MAR 1	652 000	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	142 AT 23 43 CST ON APR 17	142 ON APR 17	0B ON MAR 1	36 300	1982
1983	---	207 B ON APR 11	0B ON MAR 1	180 000	1983
1984	---	0 ON MAR 1	0 ON MAR 1	0	1984
1985	---	147 B ON MAR 29	0B ON MAR 1	55 100	1985
1986	534 AT 00 43 CST ON APR 1 *	137 A ON APR 1	0B ON MAR 1	116 000	1986
				276 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	6.39	2.01	0.103	0.002	0	0	B	---	---	1.05	1974
1975	---	---	0	0.891	0.413	0.074	0.021	0.003	0	B	---	---	0.186	1975
1976	---	---	0.002	2.85	0.083	0.032	0.001	0	0	B	---	---	0.375	1976
1977	---	---	0	0.002	0.009	0.003	0.002	0	0.001	0.004	---	---	0.003	1977
1978	---	---	0	0.716	0.080	0.047	0.109	0.002	0.001	0	---	---	0.119	1978
1979	---	---	0	5.94	2.49	0.243	0.002	0.001	0	0	---	---	1.07	1979
1980	---	---	0	0.183	0.001	0	0	0	0	B	---	---	0.022	1980
1981	---	0.030	0.035	0.029	0.030	0.017	0.001	0	0	0.017	---	---	0.016	1981
1982	---	---	0.033	0.368	0.221	0.054	0.160	0.004	0	B	---	---	0.105	1982
MEAN	---	0.030	0.008	1.95	0.594	0.064	0.033	0.001	0	0.002	---	---	0.327	MEAN

LOCATION - LAT 49 59 19 N LONG 98 27 51 W
DRAINAGE AREA 300 km^2
NATURAL FLOW

REMARKS - PUBLISHED AS "WILLOW BEND CREEK" PRIOR TO 1979. THE 1981 MAX AND MIN DAILY DISCHARGE OF 147 AND 0 m^3/s OCCURRED IN FEB

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	34.0 B ON APR 18	0B ON MAR 1 *	22 300	1974
1975	---	5.15 ON APR 14	0B ON MAR 1	3 940	1975
1976	---	15.4 B ON APR 5	0B ON MAR 1	7 950	1976
1977	---	0.071 ON MAY 23	0B ON MAR 1	53.9	1977
1978	---	2.24 B ON APR 13	0B ON MAR 1	2 520	1978
1979	---	43.6 B ON APR 22 *	0B ON MAR 1	22 700	1979
1980	---	0.5788 ON APR 9	0B ON MAR 1	476	1980
1981	0.180 AT 00 00 CST ON MAY 29	0.095 ON MAY 29	0 ON APR 28	343	1981
1982	5.24 AT 22 20 CST ON JUL 28 *	1.42 ON JUL 29	0B ON MAR 1	2 210	1982
				6 940	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	6.51	3.92	2.16	2.57	6.44	13.6	8.84	0.850	---	1912
1913	0.425	0.283	0.283	17.0	5.46	2.10	2.28	0.677	0.583	1.29	0.850	0.586	2.84	1913
1914	0.028	0.028	0.057	2.12	3.51	2.59	1.24	0.213	0.510	0.875	0.712	0.142	1.00	1914
1915	0	0	0.057	2.69	3.48	1.43	1.10	0.133	0.113	0.703	0.705	0.142	0.883	1915
1916	0.085	0.113	0.113	14.4	8.17	2.16	1.17	0.483	0.325	0.866	0.797	0.170	2.38	1916
1917	0.080	0.038	0.093	4.70	3.21	1.04	0.805	0.129	0.080	0.305	0.924	0.198	0.987	1917
1918	---	---	---	2.07	1.38	2.17	0.685	0.554	0.320	0.662	1.34	0.214	---	1918
1919	0.070	0	0.086	5.10	2.74	1.29	3.18	0.983	1.63	0.810	0.339	0.141	1.37	1919
1920	0.046	0.072	2.11	11.4	4.28	4.40	0.233	0.009	0.042	---	---	---	---	1920
1922	---	---	---	4.22	8.89	3.98	0.589	0.122	1.06	1.04	1.67	---	---	1922
1923	---	---	---	---	17.6	2.09	1.67	0.868	0.478	1.19	0.994	---	---	1923
1924	---	---	---	---	18.6	1.70	0.751	1.35	0.464	1.93	---	---	---	1924
1925	---	---	---	12.0	5.37	41.1	14.5	2.20	2.83	3.65	---	---	---	1925
1926	---	---	---	5.00	2.20	4.07	4.40	0.971	2.95	12.9	---	---	---	1926
1927	---	---	---	38.8	52.2	16.5	5.75	1.19	1.88	1.85	---	---	---	1927
1928	---	---	---	3.54	2.54	4.59	14.2	4.80	0.621	0.840	---	---	---	1928
1929	---	---	---	---	2.32	2.78	0.498	0.063	0.043	0.408	---	---	---	1929
1930	---	---	---	---	8.83	1.85	2.47	0.177	0.061	0.949	---	---	---	1930
1931	---	---	---	9.85	4.70	1.82	0.525	0.219	0.447	1.02	1.58	---	---	1931
1932	---	---	---	---	3.38	0.647	0.749	0.105	0.171	0.819	---	---	---	1932
1933	---	---	---	12.8	2.55	5.03	0.402	0.023	0.152	0.470	---	---	---	1933
1934	---	---	---	3.35	1.29	0.882	0.243	0.002	0.010	0.486	---	---	---	1934
1935	---	---	---	---	3.10	1.65	0.837	0.175	0.196	0.413	---	---	---	1935
1936	---	---	---	---	2.28	0.632	0.044	0	0.228	---	---	---	---	1936
1942	---	---	---	---	---	1.57	0.388	0.308	3.01	1.10	---	---	---	1942
1943	---	---	---	15.4	6.52	11.5	3.84	0.547	0.523	0.384	---	---	---	1943
1944	---	---	---	2.71	1.98	9.21	5.65	6.71	18.3	3.08	11.1	---	---	1944
1945	---	---	---	25.9	11.6	2.70	2.57	1.06	7.37	6.97	---	---	---	1945
1946	---	---	---	16.1	3.34	0.809	0.850	0.087	0.884	1.92	---	---	---	1946
1947	---	---	---	11.6	6.11	9.09	2.92	4.88	1.19	3.69	---	---	---	1947
1948	---	---	---	20.5	14.7	1.82	2.08	3.34	0.823	0.364	0.635	0.324	---	1948
1949	0.222	0.187	0.174	6.34	4.37	1.68	0.280	1.69	0.351	3.55	3.85	0.758	1.95	1949
1950	0.340	0.368	0.248	14.6	63.6	6.88	9.34	2.22	4.68	9.78	3.85	0.713	9.99	1950
1951	0.460	0.280	0.809	13.8	9.94	11.04	0.437	0.521	1.03	0.884	0.635	0.286	2.66	1951
1952	0.048	0.028	0.063	2.68	1.24	0.772	0.578	0.335	0.007	0.150	0.389	0.209	0.541	1952
1953	0.038	0.010	0.233	1.51	1.95	6.20	3.24	0.465	0.549	0.618	0.731	0.315	1.32	1953
1954	0.119	0.173	0.364	4.95	12.4	16.0	1.85	0.414	0.756	0.992	0.813	0.625	3.29	1954
1955	0.340	0.226	0.286	14.1	7.27	5.65	1.95	0.546	0.210	0.866	0.755	0.280	2.70	1955
1956	0.118	0.133	0.127	8.95	9.92	3.69	2.03	2.83	12.5	2.41	5.59	1.21	4.12	1956
1957	0.501	0.288	3.71	16.8	10.8	14.3	16.6	1.32	0.761	0.609	0.761	0.377	5.59	1957
1958	0.106	0.068	0.423	1.64	1.33	0.868	3.02	0.286	0.047	0.599	0.728	0.392	0.788	1958
1959	0.089	0.038	0.093	7.68	11.3	18.6	3.79	1.49	1.66	7.53	4.83	0.826	4.82	1959
1960	0.353	0.306	0.223	22.6	9.22	3.93	1.71	0.262	0.221	0.170	0.839	0.372	3.33	1960
1961	0.338	0.140	1.42	3.58	3.45	0.490	0.056	0.032	0.039	0.166	0.157	0.070	0.832	1961
1962	0.029	0.062	0.119	4.10	9.49	11.6	2.34	3.44	0.978	0.832	1.33	0.830	2.94	1962
1963	0.216	0.009	1.87	9.43	5.42	11.3	8.89	3.78	0.290	0.322	0.513	0.312	3.51	1963
1964	0.286	0.576	0.056	8.53	11.2	7.36	4.55	0.380	0.334	1.42	0.784	0.324	2.98	1964
1965	0.087	0.113	0.085	18.1	15.4	7.76	4.40	0.637	2.18	3.43	3.57	1.49	4.78	1965
1966	0.784	0.760	2.33	49.9	21.2	9.18	10.5	3.38	4.56	1.26	1.17	0.398	6.78	1966
1967	0.307	0.225	0.715	41.7	21.0	1.96	0.464	0.102	0.044	0.121	0.159	0.184	5.57	1967
1968	0.071	0.070	1.15	4.36	5.27	4.99	6.58	5.43	6.91	2.94	2.23	0.611	3.39	1968
1969	0.284	0.225	0.405	19.8	10.9	3.25	1.79	0.904	0.376	1.66	1.00	0.438	3.42	1969
1970	0.267	0.167	0.221	8.51	26.8	14.6	1.48	0.106	0.463	0.695	1.85	0.347	4.75	1970
1971	0.223	0.104	0.273	11.0	5.66	1.63	0.480	0.210	0.036	0.538	0.784	0.275	1.77	1971
1972	0.153	0.037	0.568	4.44	4.26	0.708	0.042	0.108	0.346	0.891	0.875	0.086	1.04	1972
1973	0.029	0.020	1.57	1.85	1.59	1.31	1.03	0.697	0.454	2.71	1.33	0.424	1.10	1973
1974	0.082	0.219	0.169	23.1	31.3	12.4	0.430	0.138	0.186	0.305	0.378	0.204	5.75	1974
1975	0.200	0.095	0.232	2.12	4.28	2.13	2.83	0.006	0.008	0.101	0.357	0.113	1.05	1975
1976	0.075	0.083	0.198	4.19	1.51	1.13	0.321	0.004	0	0.194	0.020	0	0.640	1976
1977	0	0	0.068	0.906	0.770	0.775	0.251	0.083	0.495	1.26	0.725	0.123	0.457	1977
1978	0.112	0.055	0.403	9.79	4.43	0.634	0.359	0.029	0.007	0.041	0.212	0.103	1.34	1978
1979	0.040	0.014	0.058	10.8	12.9	5.37	0.316	0.044	0.121	0.053	0.289	0.116	2.52	1979
1980	0.082	0.065	0.132	4.06	0.998	0.077	0	0	0.088	0.756	0.749	0.141	0.592	1980
1981	0.015	0.141	1.32	1.50	0.994	1.94	0.993	0.422	0.912	2.71	2.31	0.777	1.17	1981
1982	0.050	0.029	0.820	10.7	6.91	6.96	5.36	2.50	0.604	4.02	1.83	0.835	3.37	1982
1983	0.297	0.202	6.74	15.8	4.48	3.14	2.35	0.181	0.089	0.235	0.580	0.141	2.86	1983
1984	0.013	0.003	0.599	3.42	1.54	3.49	3.00	0.248	0.009	0.153	0.382	0.106	1.08	1984
1985	0.022	0.803	1.49	2.52	2.67	1.81	0.973	0.892	1.88	1.93	1.20	0.431	1.34	1985
1986	0.230	0.261	2.90	17.7	27.6	2.28	1.87	0.571	0.569	1.86	0.942	0.604	4.81	1986
MEAN	0.172	0.141	0.781	10.8	8.89	5.08	2.88	1.04	1.42	1.84	1.56	0.395	2.78	MEAN

LOCATION - LAT 49 27 42 N DRAINAGE AREA 1 390 km²
LONG 97 00 26 W REGULATED SINCE 1959

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	19.3 ON APR 23	0.2838 ON FEB 1	83 300	1913
1914	---	7.99 ON APR 23	0.0288 ON JAN 1	31 600	1914
1915	---	5.21 ON MAY 5	0 B ON JAN 1 *	27 800	1915
1916	---	25.2 ON APR 19	0.0858 ON JAN 1	75 600	1916
1917	---	7.31 ON APR 24	0.0288 ON FEB 11	30 500	1917
1918	---	3.78 ON JUN 11	---	---	1918
1919	---	7.828 ON APR 9	0 B ON FEB 1	43 100	1919
1920	---	17.0 ON APR 18	0 B ON JAN 21	---	1920
1922	---	15.0 ON MAY 25	---	---	1922
1923	---	95.7 R ON APR 26	---	---	1923
1924	---	---	---	---	1924
1925	---	88.1 ON JUN 12	---	---	1925
1926	---	16.2 ON OCT 27	---	---	1926
1927	---	130 ON MAY 14	---	---	1927
1928	---	22.6 ON JUL 28	---	---	1928
1929	---	---	---	---	1929
1930	---	---	0 ON SEP 6	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	20.2 B ON APR 16	0 ON AUG 19	---	1933
1934	---	---	0 ON AUG 3	---	1934
1935	---	---	---	---	1935
1936	---	---	0 ON JUL 14	---	1936
1942	---	---	---	---	1942
1943	---	24.9 ON APR 14	---	---	1943
1944	---	37.9 ON SEP 7	0 B ON APR 1	---	1944
1945	---	50.7 ON MAR 29	---	---	1945
1946	---	26.7 B ON MAR 31	---	---	1946
1947	---	17.8 ON AUG 21	---	---	1947
1948	---	62.7 ON APR 20	---	---	1948
1949	---	9.808 ON APR 7	0.082 ON JUL 18	61 400	1949
1950	---	166 ON MAY 6 *	0.2498 ON MAR 28	315 000	1950
1951	---	18.0 B ON APR 8	0.0578 ON DEC 30	84 000	1951
1952	---	3.60 ON APR 20	0 ON SEP 8	17 100	1952
1953	---	12.4 ON JUN 5	0 B ON FEB 11	41 700	1953
1954	---	31.1 ON JUN 14	0.0858 ON JAN 26	104 000	1954
1955	---	20.5 ON APR 25	0.028 ON AUG 25	85 300	1955
1956	---	27.6 ON APR 26	0.0288 ON MAR 30	130 000	1956
1957	---	32.3 ON JUN 30	0.0288 ON MAR 16	178 000	1957
1958	---	5.44 ON JUL 7	0.0288 ON FEB 3	25 200	1958
1959	---	51.0 ON JUN 13	0.023 ON AUG 9	152 000	1959
1960	---	36.0 ON APR 14	0.011 ON SEP 30	105 000	1960
1961	---	5.088 ON MAR 26	0 B ON FEB 18	26 200	1961
1962	26.0 AT 06 00 CST ON MAY 29	25.7 ON MAY 29	0 B ON JAN 1	92 600	1962
1963	32.8 AT 05 00 CST ON JUN 29	32.0 ON JUN 29	0 B ON FEB 15	111 000	1963
1964	---	24.9 A ON MAY 8	0 B ON MAR 27	94 300	1964
1965	51.5 AT 23 00 CST ON APR 14	51.0 ON APR 14	0.0208 ON JAN 20	151 000	1965
1966	80.0 AT 09 30 CST ON APR 5	86.1 ON APR 5	0.2668 ON DEC 28	276 000	1966
1967	91.2 AT 17 30 CST ON APR 22 *	86.3 ON APR 22	0.014 ON OCT 17	175 000	1967
1968	15.4 AT 08 15 CST ON MAY 16	15.1 ON MAY 16	0.0148 ON FEB 25	107 000	1968
1969	---	40.8 ON APR 12	0.045 ON SEP 3	108 000	1969
1970	37.7 AT 04 00 CST ON MAY 18	36.5 ON MAY 18	0.005 ON AUG 28	150 000	1970
1971	---	27.9 B ON APR 11	0 ON SEP 29	55 700	1971
1972	---	10.6 B ON APR 16	0 B ON FEB 7	33 000	1972
1973	---	3.86 ON OCT 22	0.0108 ON FEB 11	34 700	1973
1974	---	57.2 A ON APR 24	0 B ON JAN 12	181 000	1974
1975	21.6 AT 15 00 CST ON JUL 1	19.5 ON JUL 1	0 ON AUG 22	33 000	1975
1976	---	5.55 ON APR 15	0 ON AUG 5	20 300	1976
1977	3.03 AT 03 17 CST ON MAY 31	2.36 ON MAY 31	0 B ON JAN 1	14 400	1977
1978	16.4 B AT 04 05 CST ON APR 12	16.3 B ON APR 12	0 ON AUG 31	42 400	1978
1979	43.9 B AT 20 55 CST ON APR 20	42.3 B ON APR 20	0 ON AUG 21	79 300	1979
1980	9.41 AT 22 43 CST ON APR 7	9.248 ON APR 7	0 ON JUL 5	18 700	1980
1981	3.538 AT 15 30 CST ON NOV 20	3.31 ON OCT 31	0 B028 ON JAN 14	37 000	1981
1982	21.4 AT 10 53 CST ON APR 16	20.8 ON APR 16	0 005B ON FEB 14	106 000	1982
1983	28.1 B AT 03 44 CST ON APR 8	27.6 B ON APR 9	0 ON AUG 19	90 200	1983
1984	9.46 AT 18 37 CST ON JUN 8	8.26 ON JUN 5	0 B ON JAN 15	34 100	1984
1985	---	8.598 ON MAR 26	0 B ON FEB 12	42 100	1985
1986	48.3 AT 15 31 CST ON MAY 6	47.5 ON MAY 6	0.088 ON AUG 30	152 000	1986
				87 600	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

RAT RIVER NEAR ST MALO - STATION NO 05OE002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.098	2.74	5.86	6.38	2.98	1.30	1.75	3.07	---	---	2.99	1959
1960	---	---	0.289	6.83	5.22	3.56	1.69	0.097	0.072	0.024	---	---	2.22	1960
1961	---	---	0.158	1.84	2.19	0.480	0.072	0.022	0.033	0.009	---	---	0.571	1961
1962	---	---	0.085	1.42	4.35	5.01	2.12	3.36	2.57	5.34	---	---	3.03	1962
1963	---	---	0.284	5.60	3.84	6.82	3.59	1.64	0.855	0.201	---	---	2.81	1963
1964	---	---	0.028	3.86	5.84	4.00	2.08	0.211	0.259	0.858	---	---	2.11	1964
1965	---	---	0.028	5.10	7.16	4.51	3.32	0.359	2.18	2.84	---	---	3.18	1965
1966	---	---	0.170	17.5	11.0	5.55	4.68	2.01	2.46	0.720	---	---	5.49	1966
1967	---	---	0.208	14.7	10.1	1.59	0.520	0.147	0	0.086	---	---	3.39	1967
1968	---	---	0.282	3.24	3.61	4.03	5.35	4.23	4.13	1.98	---	---	3.35	1968
1969	---	---	0.323	8.14	6.33	2.48	1.30	0.951	0.408	1.32	---	---	2.77	1969
1970	---	---	0.226	4.67	13.4	8.29	0.542	0.058	0.238	0.846	---	---	3.52	1970
1971	---	---	0.210	5.84	4.39	1.42	0.497	0.279	0.008	0.404	---	---	1.80	1971
1972	---	---	0.143	2.44	3.38	0.496	0.084	0.054	0.228	0.445	---	---	0.803	1972
1973	---	---	0.574	1.53	1.44	1.55	0.885	0.448	0.315	2.09	---	---	1.10	1973
1974	---	---	---	6.60	12.5	5.74	0.199	0.123	0.125	0.248	---	---	---	1974
1975	---	---	0.340	1.24	3.19	2.08	1.84	0.023	0.149	0.040	---	---	1.09	1975
1976	---	---	0.118	2.89	1.23	0.832	0.223	0.020	0.093	0.087	---	---	0.677	1976
1977	---	---	0.003	0.485	0.590	0.682	0.438	0.123	0.614	1.14	---	---	0.510	1977
1978	---	---	0.180	3.90	3.24	0.494	0.406	0.081	0.025	0.104	---	---	1.05	1978
1979	---	---	0.048	3.01	5.81	2.86	0.212	0.039	0.084	0.044	---	---	1.84	1979
1980	---	---	0.104	1.96	0.861	0.031	0.007	0.005	0.188	0.701	---	---	0.476	1980
1981	---	---	0.389	1.12	0.834	1.68	0.620	0.522	1.24	2.72	---	---	1.14	1981
1982	---	---	0.178	5.07	5.60	4.82	2.79	1.58	0.385	2.89	---	---	2.93	1982
1983	---	---	2.19	9.63	3.91	3.01	2.16	0.084	0.018	0.211	---	---	2.83	1983
1984	---	---	0.231	1.93	1.25	2.37	2.89	0.153	0.003	0.084	---	---	1.08	1984
1985	---	---	0.509	1.84	2.45	1.73	0.786	0.595	1.85	1.75	---	---	1.43	1985
1986	---	---	1.60	11.3	14.1	1.97	1.38	0.317	0.595	1.54	---	---	4.09	1986
MEAN	---	---	0.333	4.89	5.16	3.02	1.54	0.877	0.730	1.14	---	---	2.14	MEAN

LOCATION - LAT 49 19 04 N DRAINAGE AREA 805 km²
LONG 96 56 39 W REGULATED SINCE 1959

RAT RIVER NEAR ST MALO - STATION NO 05OE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	14.0 ON JUN 11	0.028B ON MAR 1	63 300	1959
1960	---	13.5 ON APR 21	0 E ON AUG 14 *	47 000	1960
1961	---	4.84 ON APR 28	0.003 ON SEP 15	12 100	1961
1962	---	7.79 ON MAY 24	0.045B ON MAR 1	84 100	1962
1963	---	15.7 ON JUN 26	0.003B ON MAR 1	59 500	1963
1964	---	11.4 ON MAY 6	0.014 ON AUG 22	44 700	1964
1965	---	15.1 ON MAY 6	0.028B ON MAR 1	67 300	1965
1966	---	28.6 ON APR 11	0.170B ON MAR 1	118 000	1966
1967	---	28.8 ON APR 21 *	0 ON AUG 24	71 800	1967
1968	---	7.82 ON SEP 4	0.142B ON MAR 1	70 800	1968
1969	---	17.3 ON APR 20	0.138B ON MAR 1	58 600	1969
1970	---	16.8 ON MAY 16	0.005 ON AUG 24	74 500	1970
1971	---	9.15 ON APR 21	0 ON AUG 15	33 800	1971
1972	---	5.21 ON APR 23	0 B ON MAR 1	19 100	1972
1973	---	3.85 ON OCT 23	0 ON SEP 19	23 300	1973
1974	---	23.0 ON APR 25	0 ON AUG 10	---	1974
1975	---	5.75 ON APR 28	0.006 ON SEP 24	23 000	1975
1976	---	4.39 ON APR 21	0 ON JUL 13	14 300	1976
1977	---	1.84 ON OCT 4	0 B ON MAR 1	10 800	1977
1978	---	7.11 ON APR 19	0 ON AUG 15	22 200	1978
1979	18.2 B AT 14:19 CST ON APR 20	10.7 B ON APR 19	0 ON AUG 13	34 800	1979
1980	3.70 AT 08:00 CST ON APR 19	3.65 ON APR 19	0.004 ON JUL 27	10 100	1980
1981	3.57 AT 20:59 CST ON OCT 26	3.40E ON OCT 31	0.034 ON JUL 29	24 100	1981
1982	10.4 AT 10:16 CST ON APR 15	9.46 ON APR 15	0.038B ON MAR 1	62 000	1982
1983	14.5 AT 21:00 CST ON APR 8	14.1 ON APR 12	0 B ON MAR 1	55 700	1983
1984	7.49 AT 08:29 CST ON JUL 9	6.84 ON JUL 9	0 ON SEP 16	22 900	1984
1985	4.58 AT 09:01 CST ON MAY 13	4.43 ON MAY 13	0.020 ON AUG 3	30 400	1985
1986	21.2 AT 17:38 CST ON MAY 6 *	20.8 ON MAY 6	0.123 ON AUG 27	88 600	1986
				45 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT RIVER NEAR SUNDOWN - STATION NO 05DE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	7.85	2.58	2.22	0.889	0.606	0.214	0.398	0.670	0.358	---	1960
1961	0.278	0.052	1.09	2.24	2.17	0.360	0.239	0.089	0.120	0.280	0.211	0.180	0.608	1961
1962	0.233	0.203	0.288	2.77	7.05	4.93	1.54	2.17	0.512	0.416	0.684	0.580	1.80	1962
1963	0.198	0.080	1.45	5.09	3.44	5.90	1.86	0.955	0.240	0.942	0.241	0.241	1.72	1963
1964	0.173	0.102	0.106	4.80	4.45	4.75	0.579	0.173	0.612	0.969	0.422	0.145	1.44	1964
1965	0.152	0.166	0.144	3.43	5.79	2.88	2.57	0.593	2.28	3.58	1.10	1.00	1.88	1965
1966	0.575	0.449	1.33	10.7	9.11	1.60	5.82	0.492	1.51	0.531	0.432	0.282	2.77	1966
1967	0.226	0.075	0.509	11.7	4.40	0.482	0.437	0.222	0.030	0.255	0.250	0.278	1.57	1967
1968	0.184	0.121	0.882	3.40	3.12	4.02	3.35	2.90	1.97	1.16	0.739	0.337	1.85	1968
1969	0.246	0.331	0.386	6.55	2.87	2.71	0.926	0.525	0.316	0.936	0.890	0.388	1.40	1969
1970	0.263	0.234	0.310	7.86	10.7	4.52	0.416	0.103	0.622	1.03	1.18	0.300	2.28	1970
1971	0.128	0.084	0.116	5.58	2.57	1.17	0.809	0.237	0.151	0.660	0.689	0.275	1.03	1971
1972	0.158	0.158	0.441	4.94	2.40	0.329	0.159	0.548	0.591	0.699	0.709	0.119	0.934	1972
1973	0.114	0.133	1.15	1.28	1.36	2.04	0.615	0.732	0.909	1.68	0.988	0.372	0.951	1973
1974	0.177	0.229	0.278	10.4	10.6	3.20	0.263	0.075	0.190	0.413	0.411	0.285	2.22	1974
1975	0.289	0.210	0.294	1.73	3.17	2.00	0.868	0.052	0.082	0.244	0.330	0.097	0.783	1975
1976	0.161	0.097	0.218	3.36	0.955	0.963	0.184	0.034	0.019	0.076	0.070	0.017	0.505	1976
1977	0.005	0.015	0.322	1.10	0.786	0.703	0.315	0.148	0.990	1.15	0.787	0.783	0.591	1977
1978	0.243	0.158	0.271	5.93	2.28	0.313	0.463	0.087	0.152	0.283	0.187	0.111	0.951	1978
1979	0.051	0.049	0.153	5.62	4.03	2.18	0.220	0.045	0.184	0.295	0.294	0.216	1.11	1979
1980	0.128	0.054	0.189	2.24	0.761	0.129	0.098	0.062	0.504	0.856	0.427	0.179	0.486	1980
1981	0.158	0.307	0.643	0.945	1.08	1.60	0.423	0.558	2.52	2.54	1.18	0.447	1.03	1981
1982	0.093	0.072	0.366	5.43	3.33	1.88	1.28	0.968	0.292	2.42	0.580	0.880	1.88	1982
1983	0.274	0.288	1.11	4.02	4.08	2.59	1.75	0.512	0.341	0.661	0.373	0.227	1.36	1983
1984	0.113	0.132	0.577	1.58	0.886	4.00	0.758	0.134	0.041	0.935	0.438	0.136	0.805	1984
1985	0.091	0.082	0.541	1.10	2.34	1.71	0.657	0.830	1.55	1.52	0.729	0.284	0.955	1985
1986	0.270	0.278	1.89	8.24	8.87	0.889	1.59	0.547	0.974	0.988	0.620	0.457	2.09	1986
MEAN	0.192	0.160	0.548	4.84	3.89	2.23	1.07	0.532	0.668	0.980	0.574	0.331	1.33	MEAN

LOCATION - LAT 49 12 35 N DRAINAGE AREA 416 km²
LONG 98 17 00 W NATURAL FLOW

RAT RIVER NEAR SUNDOWN - STATION NO 05DE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	36.5 ON APR 14 *	0.8 ON MAR 1 *	---	1960
1961	---	5.32 ON APR 22	0.8 ON FEB 28	19 200	1961
1962	---	22.9 ON MAY 24	0.1058 ON MAR 25	56 700	1962
1963	---	13.1 B ON APR 10	0.8 ON FEB 2	54 300	1963
1964	---	11.8 ON APR 19	0.0288 ON FEB 29	45 300	1964
1965	---	14.3 ON MAY 8	0.1138 ON APR 8	52 900	1965
1966	---	19.9 ON JUL 5	0.147 ON AUG 5	87 200	1966
1967	---	21.3 ON APR 22	0.014 ON SEP 11	49 600	1967
1968	---	11.4 ON JUN 12	0.0258 ON MAR 4	58 500	1968
1969	---	14.4 B ON APR 14	0.139 ON AUG 29	44 200	1969
1970	---	19.8 ON MAY 31	0.051 ON AUG 28	71 900	1970
1971	---	13.5 ON APR 13	0.057 ON AUG 15	32 500	1971
1972	---	12.3 ON APR 18	0.005 ON AUG 7	29 500	1972
1973	---	8.71 ON JUN 22	0.020 ON JUL 23	30 000	1973
1974	36.5 AT 12 19 CST ON APR 22 *	34.3 ON APR 22	0 ON JUL 26	69 800	1974
1975	7.48 AT 03 05 CST ON MAY 2	7.39 ON MAY 2	0 ON SEP 16	24 700	1975
1976	5.24 AT 06 18 CST ON APR 18	5.15 ON APR 18	0 ON AUG 24	16 100	1976
1977	3.34 AT 23 55 CST ON SEP 28	3.31 ON SEP 28	0.0038 ON JAN 11	14 700	1977
1978	12.8 AT 11 20 CST ON APR 20	12.6 ON APR 19	0.009 ON SEP 11	30 000	1978
1979	18.2 AT 14 19 CST ON APR 20	17.8 ON APR 20	0.001 ON AUG 15	35 000	1979
1980	6.958 AT 16 57 CST ON APR 8	6.098 ON APR 8	0 ON AUG 1	14 700	1980
1981	13.6 AT 13 10 CST ON SEP 8	13.1 ON SEP 8	0.071 ON AUG 20	32 600	1981
1982	20.3 B AT 18 11 CST ON APR 16	18.6 B ON APR 16	0.0618 ON FEB 18	46 500	1982
1983	12.9 B AT 23 48 CST ON APR 6	10.8 ON MAY 15	0.121 ON SEP 8	42 700	1983
1984	16.3 AT 13 16 CST ON JUN 11	15.5 ON JUN 11	0 ON SEP 24	25 500	1984
1985	4.06 AT 03 47 CST ON MAY 16	4.01 ON MAY 16	0.0708 ON FEB 18	30 100	1985
1986	23.9 AT 19 19 CST ON MAY 8	21.9 ON MAR 31	0.077 ON AUG 18	66 100	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		42 100	MEAN

RED DEER RIVER NEAR THE MOUTH, LAKE WINNIPEGOSIS - STATION NO 05LC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	8.25	89.9	111	74.5	44.6	31.0	24.5	---	---	---	1956
1957	---	---	0	11.3	150	98.8	47.0	23.2	15.8	11.2	---	---	---	1957
1958	---	---	2.81	14.3	19.5	14.4	19.1	13.8	12.1	12.9	---	---	---	1958
1959	---	---	0.048	12.6	37.8	32.5	46.4	25.1	32.8	40.5	45.2	31.8	---	1959
1960	8.46	5.81	6.83	36.1	104	112	59.4	29.3	16.3	---	---	---	---	1960
1961	---	---	2.60	10.8	13.2	10.3	5.85	1.98	0.786	0.573	0.233	---	---	1961
1962	---	---	0	2.46	29.2	25.5	11.7	7.14	6.82	5.04	5.16	2.53	---	1962
1963	0.277	0	0	8.18	14.2	13.6	10.3	6.01	6.51	5.78	3.53	1.77	5.87	1963
1964	0.288	0.119	0.171	5.78	45.7	35.7	16.5	13.2	16.7	14.7	13.8	8.40	14.3	1964
1965	6.28	2.86	2.56	12.5	59.2	136	98.9	64.6	40.2	44.7	18.5	5.72	41.0	1965
1966	5.36	5.85	6.86	27.7	74.9	88.2	101	66.6	40.7	26.5	22.0	13.4	40.8	1966
1967	10.4	8.37	7.40	9.59	78.9	94.6	45.1	24.1	14.0	9.57	8.78	2.09	26.2	1967
1968	0.442	0.089	0.444	12.5	20.3	34.8	42.9	36.5	32.7	22.4	16.7	12.3	19.6	1968
1969	7.86	6.75	6.86	25.9	41.5	26.1	14.3	8.93	5.31	11.3	8.52	5.55	14.1	1969
1970	1.53	0.228	0.059	2.87	74.2	75.8	93.8	63.1	29.2	21.8	44.2	27.9	36.5	1970
1971	18.0	12.2	10.2	46.1	86.7	48.9	29.6	21.2	12.4	12.8	13.1	10.3	25.9	1971
1972	7.86	4.20	5.54	14.3	170	101	49.4	24.7	13.5	9.51	4.41	1.80	34.3	1972
1973	1.02	0.751	0.791	8.67	20.7	55.4	74.9	44.2	24.6	17.2	13.7	10.2	22.8	1973
1974	6.17	6.33	6.73	21.7	136	153	70.3	30.0	21.0	18.4	15.5	10.8	41.5	1974
1975	5.90	4.26	5.13	10.3	74.3	87.3	58.0	32.8	25.5	30.4	26.0	15.5	31.4	1975
1976	9.92	7.83	5.57	22.8	37.9	59.2	83.4	42.1	20.3	12.1	6.73	2.77	26.0	1976
1977	1.43	0.649	0.857	8.99	19.1	14.6	11.9	22.9	25.3	31.5	24.0	14.8	14.7	1977
1978	11.7	5.91	7.87	20.1	71.1	46.3	31.5	20.3	17.3	24.4	21.3	16.4	24.7	1978
1979	12.4	8.36	7.09	19.4	145	189	84.8	34.3	18.2	12.7	8.84	4.85	45.5	1979
1980	4.23	2.58	2.76	8.70	14.0	8.18	7.10	6.43	7.45	10.0	8.80	5.27	7.15	1980
1981	3.58	2.84	3.78	11.4	18.4	14.4	14.2	10.6	5.72	11.2	18.1	11.8	10.5	1981
1982	6.07	2.22	1.37	7.63	25.8	35.9	29.7	25.2	15.8	15.2	8.87	7.78	15.3	1982
1983	5.96	5.85	5.71	11.7	80.2	98.0	90.9	59.1	35.4	24.7	18.0	8.94	35.6	1983
1984	8.26	7.26	6.88	28.9	87.2	139	80.8	34.3	17.6	17.7	19.1	14.5	38.8	1984
1985	10.3	7.74	6.86	34.0	95.4	71.2	47.5	38.6	31.5	28.6	17.4	12.6	33.4	1985
1986	7.83	6.80	5.74	35.6	74.4	59.3	35.5	20.2	10.2	9.86	6.02	7.35	23.6	1986
MEAN	6.48	4.89	3.96	18.7	84.2	87.7	47.9	28.9	19.4	18.0	15.6	10.3	26.3	MEAN

LOCATION - LAT 52 52 45 N
LONG 101 02 35 W

DRAINAGE AREA 14 400 km²
NATURAL FLOW

RED DEER RIVER NEAR THE MOUTH, LAKE WINNIPEGOSIS - STATION NO 05LC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	150 ON MAY 28	---	---	1956
1957	---	185 ON MAY 10	0 B ON MAR 1 *	---	1957
1958	---	26.9 ON MAY 1	---	---	1958
1959	---	80.0 ON MAY 10	0 B ON MAR 1	---	1959
1960	---	144 ON JUN 2	---	---	1960
1961	---	15.1 ON MAY 16	---	---	1961
1962	---	36.0 ON MAY 30	0 B ON MAR 1	---	1962
1963	---	28.9 ON MAY 19	0 B ON JAN 20	185 000	1963
1964	---	83.1 ON MAY 24	0.1138 ON JAN 21	461 000	1964
1965	---	176 ON JUN 8	2.31 B ON FEB 25	1 290 000	1965
1966	---	112 ON JUL 21	5.18 B ON JAN 1	1 290 000	1966
1967	---	137 ON MAY 23	0.9918 ON DEC 31	825 000	1967
1968	65.4 AT 05 50 CST ON JUL 8	54.6 ON JUL 8	0.0628 ON MAR 16	618 000	1968
1969	57.2 AT 17 30 CST ON MAY 7	51.8 ON MAY 7	3.20 E ON SEP 18	444 000	1969
1970	118 AT 09 00 CST ON JUL 22	115 ON JUL 22	0.0518 ON MAR 16	1 150 000	1970
1971	106 AT 13 46 CST ON MAY 6	101 ON APR 30	8.47 ON SEP 25	847 000	1971
1972	199 AT 10 30 CST ON MAY 15	197 ON MAY 15	1.22 B ON DEC 29	1 080 000	1972
1973	104 AT 17 58 CST ON JUL 7	88.1 ON JUL 12	0.9578 ON MAR 1	720 000	1973
1974	192 AT 08 00 CST ON MAY 31	189 ON MAY 31	5.83 B ON JAN 12	1 310 000	1974
1975	---	87.1 ON JUN 12	3.99 B ON FEB 10	991 000	1975
1976	104 AT 18 19 CST ON JUL 5	102 ON JUL 5	2.27 B ON DEC 30	821 000	1976
1977	41.6 AT 04 10 CST ON OCT 17	38.8 ON NOV 3	0.5808 ON FEB 3	485 000	1977
1978	82.7 AT 06 00 CST ON MAY 11	78.0 ON MAY 11	6.40 B ON FEB 15	778 000	1978
1979	228 AT 12 03 CST ON JUN 6 *	223 ON JUN 6 *	3.65 B ON DEC 19	1 440 000	1979
1980	28.3 AT 14 40 CST ON AUG 25	19.4 ON MAY 5	2.37 B ON MAR 5	226 000	1980
1981	25.0 AT 18 00 CST ON NOV 7	20.9 ON NOV 13	1.74 ON SEP 20	332 000	1981
1982	63.9 AT 18 34 CST ON AUG 7	47.0 ON JUN 7	1.08 B ON APR 2	483 000	1982
1983	121 AT 16 46 CST ON JUN 14	113 ON JUN 13	4.54 B ON DEC 26	1 120 000	1983
1984	161 AT 00 52 CST ON JUN 1	151 ON JUN 1	5.11 B ON JAN 1	1 220 000	1984
1985	134 AT 19 31 CST ON JUN 8	110 ON MAY 18	5.84 B ON MAR 14	1 050 000	1985
1986	93.8 AT 10 47 CST ON JUN 12	82.8 ON MAY 16	4.54 B ON MAR 12	740 000	1986
				828 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER AT EMERSON - STATION NO 05OC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	67.0	49.7	34.8	29.8	32.3	64.6	39.9	22.3	---	1912
1913	14.1	8.55	11.3	378	90.1	49.8	37.9	27.1	34.3	33.6	37.8	24.6	62.0	1913
1914	15.3	13.9	22.7	117	91.9	125	88.7	39.1	37.8	39.0	39.5	28.5	55.8	1914
1915	25.3	24.6	38.1	144	106	142	372	83.5	50.9	51.5	45.4	32.5	92.8	1915
1916	25.4	22.3	26.1	820	588	225	304	145	120	91.0	79.4	56.5	208	1916
1917	35.6	29.6	32.3	397	164	73.3	41.7	18.2	13.2	19.3	25.5	16.0	71.9	1917
1918	6.78	6.27	30.3	68.9	51.4	85.1	28.2	20.7	18.9	11.6	19.1	16.3	28.7	1918
1919	13.3	12.0	16.8	219	112	81.0	221	103	43.4	33.0	22.6	20.6	73.5	1919
1920	23.0	25.6	82.8	520	119	138	95.1	43.7	32.1	34.3	35.1	28.7	97.6	1920
1921	23.0	22.1	32.3	181	73.9	78.2	50.5	25.0	23.8	23.7	20.4	18.7	47.6	1921
1922	13.2	10.7	56.0	361	227	95.6	42.3	18.2	16.9	14.2	20.7	10.6	73.8	1922
1923	8.65	9.27	11.2	287	219	57.0	69.6	23.1	17.0	17.3	17.3	11.3	62.4	1923
1924	6.38	6.71	8.67	80.2	87.5	38.0	25.4	11.5	10.1	20.0	15.0	5.91	26.3	1924
1925	3.99	5.25	30.4	137	46.7	299	96.3	14.7	15.8	26.5	25.2	18.6	59.7	1925
1926	13.2	14.7	47.8	150	38.0	72.9	59.7	13.8	12.8	27.6	23.1	14.0	40.6	1926
1927	11.8	11.1	113	380	415	247	93.8	45.1	42.0	38.8	31.3	22.8	121	1927
1928	17.1	19.0	55.3	215	80.7	93.4	128	54.4	68.6	51.8	45.3	30.9	71.5	1928
1929	29.7	25.0	167	192	75.1	48.0	21.4	12.0	9.14	12.8	13.6	8.33	51.2	1929
1930	5.67	5.07	81.9	247	146	54.5	30.1	10.3	6.10	6.56	7.57	6.68	50.7	1930
1931	4.98	5.65	27.2	95.9	25.0	18.7	10.1	4.46	2.29	2.40	6.25	5.30	17.3	1931
1932	4.71	3.91	38.6	221	54.5	16.6	7.25	1.77	1.13	1.30	3.44	2.52	29.5	1932
1933	1.53	1.40	24.4	165	43.8	29.0	7.18	2.07	1.30	1.38	2.40	1.31	23.3	1933
1934	1.54	0.923	13.9	61.7	18.8	5.55	3.91	1.32	0.673	1.33	2.19	1.18	9.39	1934
1935	0.399	0.783	21.2	84.2	33.2	12.4	30.6	14.6	7.81	3.31	2.20	1.68	18.5	1935
1936	1.61	1.53	1.85	191	73.7	16.5	3.41	2.24	1.89	0.811	0.872	0.947	24.5	1936
1937	0.201	0.034	0.064	57.4	82.3	30.0	23.5	44.3	23.2	11.4	7.95	2.05	23.7	1937
1938	1.51	2.15	41.2	36.3	138	73.1	24.2	6.16	5.48	5.65	5.87	5.15	28.9	1938
1939	5.60	7.23	7.35	105	33.8	18.6	16.0	5.31	6.52	10.1	10.9	7.87	19.5	1939
1940	3.83	4.20	6.35	144	63.2	29.8	10.1	7.23	5.29	6.68	11.1	8.38	24.9	1940
1941	8.84	9.86	10.2	387	86.3	150	40.4	21.4	52.5	86.8	39.3	25.1	76.3	1941
1942	16.0	18.0	55.6	468	254	119	51.2	35.5	88.1	46.5	32.1	21.9	100	1942
1943	22.6	19.8	34.2	655	206	352	184	73.2	51.5	41.7	40.5	26.2	142	1943
1944	18.8	20.8	21.7	123	107	197	193	170	167	82.3	114	77.3	108	1944
1945	36.6	38.7	258	571	245	114	61.9	37.1	50.3	55.9	39.6	28.0	128	1945
1946	26.8	22.4	182	414	117	62.9	69.1	36.0	33.0	47.0	45.8	33.1	89.1	1946
1947	29.2	25.4	29.9	505	338	341	164	57.5	44.5	52.8	46.8	38.1	139	1947
1948	30.7	23.9	24.1	704	568	109	88.9	47.0	28.6	19.1	20.2	15.8	140	1948
1949	12.7	12.9	16.9	417	144	172	96.7	83.1	51.1	32.4	39.3	30.2	93.0	1949
1950	23.4	21.2	26.2	751	2 050	631	286	108	74.1	94.3	58.7	51.2	352	1950
1951	58.1	51.0	64.8	556	308	140	77.6	41.4	55.4	44.8	40.0	54.0	124	1951
1952	50.6	54.2	56.9	486	217	108	166	64.7	39.0	26.8	24.6	19.8	109	1952
1953	17.3	17.3	36.6	115	88.2	252	157	65.2	37.3	25.3	27.2	26.5	72.3	1953
1954	23.6	24.0	36.9	165	120	121	83.6	40.7	25.4	23.1	23.5	20.3	59.1	1954
1955	20.7	18.5	18.5	300	91.4	121	77.6	51.4	26.7	26.7	17.1	12.7	85.1	1955
1956	12.2	12.9	14.4	381	412	154	116	32.7	57.4	19.3	37.5	17.4	104	1956
1957	12.5	11.6	40.9	167	128	119	263	81.6	181	107	85.3	46.5	105	1957
1958	39.2	37.0	52.9	84.3	46.7	40.3	115	28.5	13.0	12.2	13.8	10.1	41.9	1958
1959	9.86	9.70	17.9	171	89.8	77.8	58.5	21.5	15.4	16.0	16.6	17.8	40.9	1959
1960	17.5	15.8	13.4	488	147	68.1	64.6	18.7	17.5	9.88	15.7	10.7	73.3	1960
1961	9.78	8.38	48.7	73.4	68.0	31.5	12.5	7.77	7.55	16.8	11.6	7.43	25.4	1961
1962	5.60	5.66	6.37	418	340	720	455	204	85.3	89.4	81.6	46.3	203	1962
1963	35.3	30.4	42.9	222	108	212	86.4	37.2	34.3	39.5	27.4	19.7	74.3	1963
1964	21.7	21.4	19.4	240	155	269	103	37.4	19.0	48.2	39.3	25.8	82.9	1964
1965	25.8	25.2	26.9	708	526	284	160	85.4	59.3	125	94.5	78.2	182	1965
1966	53.2	46.7	165	1 300	573	198	135	107	81.9	56.4	60.4	51.6	235	1966
1967	46.2	41.8	59.1	720	586	185	102	62.1	26.9	25.7	27.3	19.1	155	1967
1968	13.9	14.0	40.6	136	70.9	171	194	93.2	84.8	62.4	80.7	55.4	83.3	1968
1969	46.0	45.7	61.5	825	777	183	114	58.8	46.9	59.0	57.8	44.5	194	1969
1970	41.2	40.0	44.7	544	650	480	156	45.7	39.6	36.3	47.2	31.0	180	1970
1971	29.3	28.3	55.5	410	155	92.1	82.4	61.4	42.4	114	146	75.9	106	1971
1972	55.6	45.2	193	677	308	180	70.3	70.2	58.3	51.9	48.4	32.7	149	1972
1973	31.5	31.6	185	76.7	48.6	37.1	17.6	22.1	72.7	118	74.0	58.9	63.0	1973
1974	46.5	47.8	57.3	548	840	305	106	82.4	58.1	54.9	60.6	38.6	189	1974
1975	37.2	40.0	46.7	367	773	196	794	133	72.5	65.8	68.2	44.3	222	1975
1976	43.1	46.5	79.1	494	125	57.3	44.0	31.7	20.6	11.0	8.88	5.01	80.7	1976
1977	5.11	5.38	11.3	59.5	34.0	24.4	18.0	7.38	15.1	40.3	31.9	36.6	24.1	1977
1978	34.7	28.0	48.2	1 020	290	110	102	49.0	31.7	27.1	24.7	18.3	148	1978
1979	15.9	16.4	21.9	698	1 390	229	182	85.5	63.1	49.6	55.4	43.3	240	1979
1980	38.3	37.7	41.9	287	68.0	46.2	24.4	13.7	23.7	15.6	18.6	10.2	51.7	1980
1981	8.27	8.40	41.6	51.2	39.3	44.8	77.5	43.0	51.2	68.0	55.6	31.3	43.6	1981
1982	32.6	29.9	49.7	625	251	121	116	59.8	38.1	124	71.8	54.8	132	1982
1983	45.7	39.0	265	355	114	144	184	74.3	79.9	83.1	60.5	48.6	123	1983
1984	39.1	36.1	82.0	542	120	328	96.3	43.3	27.2	52.4	52.7	40.9	121	1984
1985	34.2	32.7	183	209	258	225	209	208	166	128	79.5	59.4	150	1985
1986	57.0	51.3	172	760	631	209	142	80.6	82.6	102	58.0	56.2	201	1986
MEAN	22.4	21.2	54.9	356	245	144	105	49.7	42.2	42.1	37.4	27.5	96.4	MEAN

LOCATION - LAT 49 00 30 N LONG 97 12 40 W DRAINAGE AREA 104 000 km² REGULATED INTERNATIONAL GAUGING STATION

RED RIVER AT EMERSON - STATION NO 05OC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	725 ON APR 1	7 35 B ON MAR 6	1 960 000	1914
		206 ON JUN 19	13 9 B ON FEB 1	1 760 000	
1915	---	---	---	---	1915
1916	---	569 ON JUL 9	21 0 B ON JAN 1	2 930 000	1916
1917	---	1 310 ON APR 24	21 4 B ON FEB 13	6 580 000	1917
1918	---	733 ON APR 12	8 50 B ON DEC 31	2 270 000	1918
1919	---	1418 ON APR 3	5 30 B ON JAN 31	905 000	1919
		379 ON JUL 11	11 3 B ON FEB 28	2 320 000	
1920	---	---	---	---	1920
1921	---	7568 ON APR 15	19 5 B ON JAN 1	3 090 000	1921
1922	---	362 ON APR 15	14 8 B ON NOV 24	1 500 000	1922
1923	---	535 ON APR 14	10 1 B ON FEB 17	2 330 000	1923
1924	---	736 ON APR 25	6 51 B ON JAN 7	1 970 000	1924
		179 ON APR 28	4 39 B ON DEC 31	831 000	
1925	---	---	---	---	1925
1926	---	496 ON JUN 21	3 54 B ON FEB 5	1 680 000	1926
1927	---	2278 ON APR 1	6 71 ON SEP 7	1 280 000	1927
1928	---	580 ON MAY 16	10 4 B ON FEB 4	3 820 000	1928
1929	---	476 ON APR 6	16 4 B ON JAN 5	2 260 000	1929
		544 ON APR 1	6 65 B ON NOV 30	1 610 000	
1930	---	---	---	---	1930
1931	---	589 ON APR 10	4 36 ON OCT 9	1 800 000	1931
1932	---	225 ON APR 10	1 04 ON OCT 6	545 000	1932
1933	---	5358 ON APR 15	0 680 ON SEP 29	934 000	1933
1934	---	3118 ON APR 9	0 708 ON SEP 5	736 000	1934
		1388 ON APR 13	0 4258 ON DEC 31	297 000	
1935	---	---	---	---	1935
1936	---	1558 ON APR 2	0 3408 ON JAN 3	585 000	1936
1937	---	510 ON APR 21	0 4818 ON DEC 17	774 000	1937
1938	---	165 ON MAY 6	0 0258 ON FEB 6 *	746 000	1938
1939	---	213 ON MAY 19	0 9638 ON JAN 7	912 000	1939
		1908 ON APR 10	3 34 ON AUG 18	814 000	
1940	---	---	---	---	1940
1941	---	4138 ON APR 21	2 89 B ON JAN 18	785 000	1941
1942	---	787 ON APR 15	7 50 B ON JAN 9	2 400 000	1942
1943	---	790 ON APR 10	13 4 B ON JAN 16	3 180 000	1943
1944	---	835 ON APR 20	16 5 B ON FEB 28	4 470 000	1944
		3488 ON APR 19	17 8 B ON JAN 2	3 400 000	
1945	---	---	---	---	1945
1946	---	8338 ON APR 4	25 5 B ON DEC 23	4 040 000	1946
1947	---	8828 ON APR 5	18 2 B ON FEB 23	2 810 000	1947
1948	---	804 ON APR 28	22 8 B ON FEB 27	4 390 000	1948
1949	---	1 470 ON APR 27	13 8 B ON DEC 31	4 420 000	1949
		827 ON APR 15	11 6 B ON JAN 20	2 830 000	
1950	---	---	---	---	1950
1951	---	2 670 ON MAY 13 *	18 7 B ON FEB 1	11 100 000	1951
1952	---	763 ON APR 15	32 0 B ON NOV 25	3 910 000	1952
1953	---	885 ON APR 24	17 0 B ON DEC 29	3 450 000	1953
1954	---	411 ON JUN 28	16 3 B ON JAN 15	2 280 000	1954
		3288 ON APR 17	16 1 B ON DEC 9	1 880 000	
1955	880 AT 04 00 CST ON APR 10	883 ON APR 10	10 6 B ON DEC 30	2 050 000	1955
1956	957 AT 07 00 CST ON APR 27	954 ON APR 26	10 6 B ON JAN 1	3 280 000	1956
1957	433 AT 03 00 CST ON JUL 5	433 ON JUL 4	10 2 B ON JAN 31	3 310 000	1957
1958	225 AT 08 00 CST ON JUL 12	223 ON JUL 12	5 78 B ON DEC 21	1 320 000	1958
1959	---	4458 ON APR 10	7 70 B ON JAN 1	1 280 000	1959
1960	884 AT 12 00 CST ON APR 13	864 ON APR 13	7 82 ON OCT 10	2 310 000	1960
1961	1228 AT 11 00 CST ON MAR 31	1218 ON MAR 30	3 45 ON SEP 7	800 000	1961
1962	946 AT 17 30 CST ON APR 25	943 ON APR 25	4 47 B ON JAN 28	6 380 000	1962
1963	391 AT 14 00 CST ON APR 13	388 ON APR 13	19 3 B ON DEC 5	2 340 000	1963
1964	---	4984 ON JUN 25	10 3 A ON SEP 20	2 820 000	1964
1965	1 310 AT 08 00 CST ON APR 25	1 310 ON APR 25	24 8 B ON FEB 4	5 730 000	1965
1966	1 890 AT 15 00 CST ON APR 11	1 880 ON APR 11	40 5 B ON DEC 9	7 420 000	1966
1967	9518 AT 11 20 CST ON APR 9	940 ON APR 30	15 6 B ON DEC 24	4 900 000	1967
1968	---	394 ON JUL 24	11 4 B ON MAR 2	2 840 000	1968
1969	---	1 550 ON APR 26	31 7 B ON NOV 24	6 110 000	1969
1970	---	---	---	---	1970
1971	---	1 120 ON APR 28	26 5 B ON DEC 18	5 860 000	1971
1972	---	753 ON APR 16	24 4 ON OCT 2	3 340 000	1972
1973	4158 AT 12 40 CST ON MAR 27	869 ON APR 23	30 6 B ON DEC 11	4 700 000	1973
1974	1 230 AT 14 39 CST ON APR 28	4028 ON MAR 27	12 7 ON JUL 24	1 990 000	1974
		1 230 ON APR 28	33 7 B ON DEC 16	5 850 000	
1975	1 210 AT 03 16 CST ON MAY 8	1 210 ON MAY 7	27 8 B ON JAN 21	7 010 000	1975
1976	9328 AT 05 30 CST ON APR 6	886 ON APR 7	4 08 B ON DEC 15	2 550 000	1976
1977	130 AT 11 00 CST ON APR 10	126 ON APR 10	4 67 B ON MAR 9	761 000	1977
1978	1 430 AT 15 22 CST ON APR 18	1 420 ON APR 18	16 1 B ON DEC 19	4 670 000	1978
1979	2 630 AT 20 00 CST ON MAY 1 *	2 620 ON MAY 1	15 1 B ON FEB 6	7 580 000	1979
1980	---	614 ON APR 10	8 64 B ON DEC 31	1 640 000	1980
1981	174 AT 13 00 CST ON JUL 4	173 ON JUL 4	6 97 B ON FEB 8	1 370 000	1981
1982	985 AT 22 53 CST ON APR 18	963 ON APR 18	27 6 B ON FEB 7	4 160 000	1982
1983	732 AT 00 00 CST ON APR 10	714 ON APR 10	33 4 B ON FEB 27	3 880 000	1983
1984	---	855 ON APR 8	8 09 ON OCT 14	3 820 000	1984
1985	4778 AT 00 28 CST ON MAR 30	4728 ON MAR 29	32 0 B ON FEB 8	4 730 000	1985
1986	---	969 ON APR 7	47 7 B ON MAR 3	6 330 000	1986
				3 040 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO 05OJ014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	223	256	0	0	0	0	0	---	---	59 6	1969
1970	---	---	0	167	43 7	0	0	0	0	0	---	---	26 0	1970
1971	---	---	0	72 5	0	0	0	0	0	0	---	---	8 88	1971
1972	---	---	0	14 4	0	0	0	0	0	0	---	---	1 76	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	362	414	0	0	0	0	0	---	---	96 7	1974
1975	---	---	0	0	140	0	0	0	0	0	---	---	17 7	1975
1976	---	---	0	78 9	0	0	0	0	0	0	---	---	9 66	1976
MEAN	---	---	0	115	107	0	0	0	0	0	---	---	27 5	MEAN

LOCATION - LAT 50 05 00 N
LONG 96 55 40 W REGULATED SINCE 1965

REMARKS - LOCAL RUNOFF IS NOT INCLUDED ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO 05OJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	646 AT 13 57 CST ON MAY 7	637 ON MAY 7	0 ON MAR 1 x	1 260 000	1969
1970	682 AT 04 10 CST ON MAY 2 x	682 ON MAY 1	0 ON MAR 1	551 000	1970
1971	---	286 ON APR 14	0 ON MAR 1	188 000	1971
1972	---	65 7 ON APR 18	0 ON MAR 1	37 200	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	1 130 ON APR 24 x	0 ON MAR 1	2 050 000	1974
1975	283 AT 13 50 CST ON MAY 8	278 ON MAY 8	0 ON MAR 1	374 000	1975
1976	---	306 ON APR 11	0 ON MAR 1	205 000	1976
		x - EXTREME RECORDED FOR THE PERIOD OF RECORD		583 000	MEAN

RED RIVER FLOODWAY NEAR ST NORBERT - STATION NO 05OC017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	224	237	0	0	0	0	0	---	---	57 4	1969
1970	---	---	0	150	214	0	0	0	0	0	---	---	45 4	1970
1971	---	---	0	54 8	0	0	0	0	0	0	---	---	6 68	1971
1972	---	---	0	4 15	0	0	0	0	0	0	---	---	0 508	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	341	363	0	0	0	0	0	---	---	87 7	1974
1975	---	---	0	0 377	132	0	0	0	0	0	---	---	16 8	1975
1976	---	---	0	73 5	0	0	0	0	0	0	---	---	9 01	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	231	11 8	0	0	0	0	0	---	---	25 8	1978
1979	---	---	0	286	795	0	0	0	0	0	---	---	136	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	2 55	0	0	0	0	0	0	---	---	0 313	1982
1983	---	---	0	2 26	0	0	0	0	0	0	---	---	0 277	1983
1984	---	---	0	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0	0	0	0	0	0	0	0	---	---	0	1985
1986	---	---	0	68 8	4 72	0	0	0	0	0	---	---	9 02	1986
MEAN	---	---	0	79 9	97 6	0	0	0	0	0	---	---	22 2	MEAN

LOCATION - LAT 49 45 24 N
LONG 97 07 36 W REGULATED SINCE 1969

REMARKS - LOCAL RUNOFF IS NOT INCLUDED ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR ST NORBERT - STATION NO 05OC017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	626 AT 16 35 CST ON MAY 2	626 ON MAY 3	0 ON MAR 1 *	1 220 000	1969
1970	648 AT 08 46 CST ON MAY 1	646 ON MAY 1	0 ON MAR 1	961 000	1970
1971	---	257 ON APR 14	0 ON MAR 1	141 000	1971
1972	---	33 4 ON APR 18	0 ON MAR 1	10 700	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	1 040 ON APR 24	0 ON MAR 1	1 860 000	1974
1975	274 AT 10 00 CST ON MAY 8	267 ON MAY 7	0 ON MAR 1	355 000	1975
1976	---	292 ON APR 11	0 ON MAR 1	191 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	544 AT 03 00 CST ON APR 16	513 ON APR 16	08 ON MAR 1	632 000	1978
1979	1 190 AT 16 14 CST ON MAY 9 *	1 190 ON MAY 9 *	0 ON MAR 1	2 870 000	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	18 5 AT 15 50 CST ON APR 18	17 8 ON APR 18	0 ON MAR 1	6 820	1982
1983	31 7 AT 02 14 CST ON APR 11	26 4 ON APR 11	0 ON MAR 1	5 860	1983
1984	---	0 ON MAR 1	0 ON MAR 1	0	1984
1985	---	0 ON MAR 1	0 ON MAR 1	0	1985
1986	283 AT 19 55 CST ON APR 2	278 ON APR 3	0 ON MAR 1	191 000	1986
				469 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER NEAR LOCKPORT - STATION NO 05OJ010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	637	513	816	514	288	158	81 9	76 2	80 5	---	1962
1963	40 2	36 1	60 4	433	186	360	150	66 0	45 1	50 5	66 3	25 3	126	1963
1964	29 1	31 8	31 7	426	336	314	187	57 1	41 8	100	69 3	36 9	136	1964
1965	34 1	35 6	35 6	1 040	997	483	243	98 3	75 8	214	142	106	293	1965
1966	76 5	60 5	163	1 950	1 060	332	274	132	118	67 4	75 7	58 9	364	1966
1967	51 5	48 4	59 4	1 230	901	293	133	56 2	46 5	32 6	21 4	28 1	241	1967
1968	22 1	18 8	82 0	308	140	231	283	194	189	104	73 7	51 6	140	1968
1969	41 2	46 5	57 4	1 200	1 400	368	253	112	79 6	94 2	79 6	50 7	317	1969
1970	54 3	52 9	53 8	861	1 350	785	371	110	85 2	68 8	79 0	54 3	326	1970
1971	40 3	36 8	38 4	737	288	232	174	94 0	76 4	175	205	93 3	185	1971
1972	64 9	61 5	209	910	623	315	135	102	74 6	79 0	67 3	51 3	224	1972
1973	52 2	46 3	217	133	71 0	67 0	42 9	81 0	79 4	167	99 9	79 1	81 7	1973
1974	64 6	62 4	75 9	1 010	1 780	777	265	174	121	105	105	85 7	387	1974
1975	76 7	66 7	81 0	448	1 170	471	996	290	150	174	139	104	350	1975
1976	92 9	88 6	99 3	1 000	563	336	214	124	71 2	44 7	31 8	23 2	224	1976
1977	30 3	29 2	36 6	97 4	57 9	47 3	43 7	35 2	41 1	73 3	50 8	59 6	51 1	1977
1978	55 8	49 2	63 0	1 270	493	164	139	77 3	54 1	47 7	31 4	30 6	205	1978
1979	25 2	29 9	40 9	931	2 200	611	342	144	82 9	61 4	71 4	57 8	386	1979
1980	63 7	60 5	64 6	467	99 1	80 6	45 3	37 6	45 0	43 6	44 4	29 9	87 8	1980
1981	22 1	24 5	75 7	84 0	59 3	83 5	108	51 6	86 1	106	83 0	45 4	69 6	1981
1982	40 8	42 6	80 7	814	495	241	165	108	63 7	162	104	90 6	199	1982
1983	66 5	64 1	350	788	334	266	272	116	124	121	121	68 9	225	1983
1984	61 2	55 8	90 7	644	173	406	156	60 5	42 9	75 0	87 5	60 4	158	1984
1985	55 6	52 8	267	470	377	342	266	285	240	179	117	89 5	229	1985
1986	86 5	77 7	275	1 190	986	331	209	101	93 7	131	83 7	75 2	304	1986
MEAN	52 0	49 2	108	764	666	349	238	118	90 6	102	85 0	61 1	222	MEAN

LOCATION - LAT 50 06 28 N
LONG 96 55 54 W

DRAINAGE AREA 287 000 km^2
REGULATED

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	1 720 ON APR 25	---	---	1963
1964	---	782 ON APR 11	24.08 ON DEC 25	3 980 000	1964
		1 0008 ON APR 18	26.28 ON JAN 1	4 310 000	
1965	---	---	---	---	1965
1966	---	1 890 ON APR 19	32.88 ON JAN 9	8 240 000	1966
1967	---	2 570A ON APR 14	51.08 ON MAR 15	11 500 000	1967
1968	---	1 650B ON APR 26	15.0 ON NOV 5 *	7 610 000	1968
1969	---	490B ON APR 11	16.78 ON MAR 2	4 420 000	1969
		2 200 ON MAY 1	40.88 ON JAN 10	9 990 000	
1970	---	---	---	---	1970
1971	---	2 040 ON MAY 2	49.08 ON DEC 28	10 300 000	1971
1972	---	1 580B ON APR 13	36.88 ON JAN 11	5 830 000	1972
1973	---	1 130B ON APR 23	41.18 ON DEC 12	7 090 000	1973
1974	2 520 AT 05 40 CST ON APR 27	535B ON MAR 28	30.3 ON SEP 8	2 890 000	1974
		2 510 ON APR 26	52.48 ON FEB 2	12 200 000	
1975	---	---	---	---	1975
1976	1 570B AT 23 30 CST ON APR 8	1 480 ON MAY 13	82.68 ON FEB 1	11 000 000	1976
1977	---	1 530 ON APR 9	18.38 ON DEC 5	7 070 000	1977
1978	---	1888 ON APR 13	19.0 ON AUG 29	1 610 000	1978
1979	2 780 AT 15 44 CST ON MAY 8 *	1 810B ON APR 17	24.08 ON NOV 15	6 480 000	1979
		2 780 ON MAY 8 *	23.88 ON JAN 16	12 200 000	
1980	---	---	---	---	1980
1981	---	1 010B ON APR 12	19.78 ON DEC 26	2 780 000	1981
1982	---	234 ON JUL 5	19.88 ON JAN 9	2 200 000	1982
1983	---	1 310 ON APR 18	37.38 ON JAN 12	5 280 000	1983
1984	---	1 580B ON APR 10	56.58 ON MAR 3	7 080 000	1984
		1 100B ON APR 8	38.4 ON OCT 18	5 010 000	
1985	---	---	---	---	1985
1986	---	8688 ON APR 3	48.08 ON FEB 5	7 230 000	1986
		1 760B ON APR 1	65.08 ON MAR 10	9 800 000	
				7 000 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER NEAR STE AGATHE - STATION NO. 05DC012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	49.6	44.4	136	35.3	17.2	18.4	---	---	---	1958
1959	---	---	16.8	218	101	121	69.4	27.8	18.1	40.4	---	---	---	1959
1960	---	---	13.9	625	209	119	80.2	22.1	21.9	11.0	19.0	10.2	---	1960
1961	9.11	8.25	52.0	96.1	84.9	38.8	14.4	9.20	8.64	21.0	14.7	8.77	30.6	1961
1962	5.82	5.42	8.24	532	442	743	504	255	117	71.5	61.8	48.5	233	1962
1963	33.7	30.8	44.7	281	127	273	104	43.8	35.9	40.3	28.5	20.7	88.4	1963
1964	21.4	22.8	19.8	312	197	277	147	56.3	31.7	89.2	44.4	28.6	101	1964
1965	25.0	25.6	26.4	781	686	333	187	74.5	55.6	143	105	101	210	1965
1966	76.2	53.8	147	1 530	747	264	222	114	88.8	55.6	54.0	50.1	283	1966
1967	41.5	36.3	50.7	935	574	219	114	43.1	27.1	27.5	17.1	16.3	184	1967
1968	15.6	12.3	44.1	188	89.6	185	249	174	151	82.3	60.6	51.4	110	1968
1969	40.7	36.2	53.5	815	961	225	141	88.7	49.9	62.5	58.7	44.4	214	1969
1970	40.0	36.3	40.7	845	854	585	225	47.8	41.5	37.6	44.2	31.9	228	1970
1971	29.3	26.6	65.5	604	186	103	84.8	44.6	44.4	112	155	82.0	126	1971
1972	44.0	46.1	181	750	387	190	74.5	73.8	58.0	55.8	42.4	30.1	161	1972
1973	26.3	31.8	192	84.5	54.3	41.4	20.1	20.6	69.8	139	80.9	61.3	69.0	1973
1974	49.1	48.9	56.8	857	1 120	402	113	88.6	73.9	61.4	61.3	38.4	232	1974
1975	35.8	38.2	46.7	367	894	229	837	172	72.6	65.0	80.3	50.5	241	1975
1976	45.6	48.7	68.0	525	153	78.5	47.9	30.6	21.4	10.9	8.30	4.57	94.5	1976
1977	4.07	5.36	10.5	86.9	40.0	27.2	17.0	8.23	12.8	42.0	25.3	40.7	25.1	1977
1978	36.2	31.4	42.3	1 040	430	127	105	58.9	41.1	31.6	19.3	21.7	165	1978
1979	17.5	17.9	22.2	680	1 780	309	199	101	82.7	44.0	50.5	39.5	277	1979
1980	38.8	38.1	43.4	342	70.8	61.3	24.4	17.4	25.8	14.1	10.4	11.3	55.8	1980
1981	7.25	8.98	42.6	54.2	39.4	55.9	67.3	40.7	58.5	77.0	61.0	35.6	47.7	1981
1982	31.2	28.2	42.1	688	304	147	128	78.9	40.5	139	75.6	60.1	147	1982
1983	44.8	40.8	328	527	137	150	208	72.1	87.7	62.7	51.7	47.8	147	1983
1984	35.0	37.2	77.1	585	132	334	113	44.9	32.0	53.9	61.9	43.5	129	1984
1985	33.0	29.8	200	283	280	274	239	236	204	145	87.7	56.2	174	1985
1986	51.1	45.2	180	884	728	259	155	78.4	73.2	104	64.0	56.7	224	1986
MEAN	32.5	30.4	75.6	542	415	214	160	73.7	57.4	63.4	53.1	39.8	154	MEAN

LOCATION - LAT 49 33 40 N LONG 97 10 52 W DRAINAGE AREA 117 000 km^2 REGULATED

RED RIVER NEAR STE. AGATHE - STATION NO 05DC012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	---	---	---	1959
1960	---	4788 ON APR 11	---	---	1960
1961	---	---	---	---	1961
1962	---	1 060 ON APR 17	---	---	1962
1963	---	1508 ON MAR 31	---	---	1963
1964	5528 AT 12 30 CST ON APR 10	1 260A ON APR 25	2.85 ON SEP 9	984 000	1964
	---	5078 ON APR 10	4.398 ON FEB 5	7 380 000	1965
		6548 ON APR 19	19.5 B ON DEC 5	2 790 000	1966
1965	1 280 AT 16 00 CST ON APR 19		16.8 B ON MAR 10	3 200 000	1967
1966	---	1 280 ON APR 19			1968
1967	1 2708 AT 14 00 CST ON APR 8	1 870A ON APR 15	23.1 B ON JAN 21	6 610 000	1969
1968	436 AT 17 00 CST ON JUL 25	1 180B ON APR 9	40.8 B ON MAR 16	8 930 000	1970
1969	1 480 AT 11 39 CST ON MAY 2	430 ON JUL 25	8 648 ON NOV 14	5 780 000	1971
		1 480 ON MAY 1	9 778 ON MAR 7	3 480 000	1972
1970	1 480 AT 20 15 CST ON MAY 1		32.8 B ON FEB 6	6 740 000	1973
1971	---	1 450 ON APR 30			1974
1972	971 AT 12 40 CST ON APR 25	1 2108 ON APR 13	27.4 B ON DEC 3	7 180 000	1975
1973	---	988 ON APR 25	25.2 B ON FEB 8	3 960 000	1976
1974	---	4738 ON MAR 26	27.4 B ON DEC 8	5 080 000	1977
		1 420 ON APR 25	12.9 ON AUG 3	2 180 000	1978
1975	---		34.8 B ON DEC 7	7 320 000	1979
1976	1 1908 AT 23 00 CST ON APR 8	1 210 ON MAY 11			1980
1977	---	1 1808 ON APR 8	28.0 B ON JAN 24	7 610 000	1981
1978	---	1338E ON APR 12	3.828 ON DEC 21	2 990 000	1982
1979	2 330 AT 17 45 CST ON MAY 4 *	1 600 ON APR 21	3.608 ON JAN 13 *	791 000	1983
		2 320 ON MAY 4 *	14.5 B ON NOV 14	5 190 000	1984
1980	784 AT 05 57 CST ON APR 12		15.2 B ON FEB 4	8 730 000	1985
1981	181 AT 15 41 CST ON JUL 5	7468 ON APR 12			1986
1982	1 070 AT 00 36 CST ON APR 17	180 ON JUL 5	7.018 ON NOV 18	1 800 000	1987
1983	1 0308 AT 01 00 CST ON APR 11	1 070 ON APR 17	6.788 ON JAN 16	1 500 000	1988
1984	1 080 AT 19 32 CST ON APR 8	1 0108 ON APR 11	26.5 B ON FEB 9	4 630 000	1989
		9538 ON APR 7	35.1 B ON MAR 2	4 840 000	
1985	---		21.2 ON OCT 16	4 070 000	
1986	1 150 AT 23 22 CST ON APR 2	5728 ON APR 3	29.3 B ON FEB 28	5 480 000	1985
		1 140A ON APR 1	44.5 B ON MAR 3	7 050 000	1986
				4 850 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RENNIE RIVER NEAR RENNIE - STATION NO 05PG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.044	3.17	2.85	0.458	0.046	0.055	0.045	0.056	---	---	---	1960
1961	---	---	0.092	0.205	0.904	0.301	0.077	0.058	0.037	0.122	---	---	---	1961
1962	---	---	0	0.255	7.54	3.95	0.836	5.21	2.09	0.043	---	---	---	1962
1963	---	---	0.082	2.01	2.81	3.76	0.547	1.57	0.386	0.247	---	---	---	1963
1964	---	---	0.221	1.98	4.11	0.362	0.412	0.531	0.842	1.82	---	---	---	1964
1965	---	---	0.105	4.01	4.02	0.548	1.08	0.379	0.377	---	---	---	---	1965
1966	---	---	0.300	4.88	5.99	1.03	2.28	0.082	0.122	0.187	0.248	0.323	---	1966
1967	0.311	0.251	0.184	3.55	3.04	0.017	0.093	2.04	0.426	0.021	0.019	0.047	0.837	1967
1968	0.112	0.101	0.084	1.80	1.87	1.48	1.45	0.224	0.491	1.86	0.827	0.403	0.903	1968
1969	0.280	0.259	0.180	1.37	1.86	0.161	0.200	0.151	0.141	0.107	0.105	0.080	0.407	1969
1970	0.147	0.132	0.149	0.880	5.05	2.28	0.051	0.018	0.018	0.018	1.23	0.880	0.874	1970
1971	0.285	0.184	0.184	2.43	1.77	0.352	0.847	0.038	0.041	0.027	0.202	0.713	0.571	1971
1972	0.370	0.186	0.142	0.894	1.44	0.180	0.008	0.005	0.004	0.003	0.001	0.001	0.254	1972
1973	0.003	0.022	0.121	0.014	0.024	3.51	0.883	0.479	0.580	4.10	1.97	0.763	1.04	1973
1974	0.382	0.244	0.184	3.36	5.11	1.61	0.107	0.028	0.392	0.531	0.318	0.237	1.13	1974
1975	0.201	0.153	0.147	0.899	1.89	0.459	1.85	0.055	0.280	0.231	0.446	0.220	0.556	1975
1976	0.194	0.129	0.137	1.68	1.22	0.129	0.518	0.032	0.014	0.008	0.003	0.005	0.338	1976
1977	0.003	0.002	0.004	0.005	0.007	1.81	1.05	0.093	0.143	0.873	0.785	0.750	0.481	1977
1978	0.448	0.244	0.141	1.86	3.41	0.746	0.180	0.045	0.028	0.195	0.227	0.144	0.823	1978
1979	0.138	0.135	0.177	0.890	3.57	0.843	0.067	0.084	0.034	0.013	0.043	0.127	0.512	1979
1980	0.158	0.177	0.171	0.244	0.328	0.085	0.104	0.062	0.528	0.356	0.350	0.380	0.241	1980
1981	0.185	0.160	0.022	0.005	0.012	0.009	0.010	0.022	0.203	1.85	0.677	0.540	0.310	1981
1982	0.247	0.174	0.096	0.410	1.82	0.724	0.635	0.244	0.032	0.439	0.388	0.250	0.486	1982
1983	0.204	0.140	0.173	0.156	1.12	1.11	0.428	0.064	0.018	0.016	0.005	0.003	0.285	1983
1984	0.002	0.001	0.086	0.010	0.003	1.88	0.762	0.043	0.005	0.378	1.26	0.849	0.404	1984
1985	0.320	0.171	0.083	---	---	0.573	0.784	0.413	0.624	0.798	0.841	0.494	---	1985
1986	0.255	0.149	0.128	2.24	4.61	0.120	0.029	0.019	0.009	0.007	0.008	0.011	0.837	1986
MEAN	0.212	0.150	0.124	1.49	2.59	1.05	0.553	0.444	0.292	0.549	0.473	0.324	0.571	MEAN

LOCATION - LAT 49 55 42 N, LONG 95 32 40 W
DRAINAGE AREA, 159 km^2
REGULATED

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	7.31 ON APR 25	0 B ON MAR 25 *	---	1960
1961	---	1.14 ON MAY 15	0.016 ON AUG 24	---	1961
1962	---	14.0 ON MAY 25 *	0 B ON MAR 1	---	1962
1963	---	5.44 ON JUN 13	0.082B ON MAR 1	---	1963
1964	---	5.97 ON MAY 8	0.011B ON MAR 1	---	1964
1965	---	6.03 ON MAY 7	---	---	1965
1966	---	8.44E ON APR 17	0.028 ON JUN 21	---	1966
1967	---	7.16E ON APR 24	0.003E ON OCT 24	25 400	1967
1968	---	3.31E ON APR 24	0.042E ON AUG 29	28 500	1968
1969	---	3.60 ON MAY 1	0.042 ON NOV 27	12 800	1969
1970	6.43 AT 14:17 CST ON MAY 6	6.40 ON MAY 5	0 ON APR 2	27 500	1970
1971	7.70 AT 13:21 CST ON APR 22	7.39 ON APR 24	0.012 ON MAY 29	18 000	1971
1972	---	2.80 ON MAY 9	0 ON DEC 23	8 030	1972
1973	---	14.0 E ON JUN 20	0 ON JAN 1	32 900	1973
1974	12.7 AT 14:20 CST ON APR 26 *	12.5 ON APR 26	0.012 ON AUG 10	35 500	1974
1975	3.68 IN JUL	3.68 ON JUL 4	0 ON MAY 30	17 500	1975
1976	---	3.91E ON APR 29	0 ON MAY 19	10 700	1976
1977	7.76 AT 15:09 CST ON JUN 25	7.14 ON JUN 25	0.002E ON FEB 6	14 500	1977
1978	9.60 AT 15:56 CST ON MAY 2	8.61 ON MAY 3	0.004 ON SEP 30	19 700	1978
1979	---	4.45E ON MAY 6	0.006A ON JUN 14	16 200	1979
1980	1.28 AT 09:23 CST ON SEP 22	1.12 ON SEP 23	0.020 ON JUN 27	7 540	1980
1981	5.89 AT 09:38 CST ON OCT 6	4.97 ON OCT 7	0 B ON APR 7	9 780	1981
1982	3.66 AT 07:49 CST ON MAY 19	3.36 ON MAY 20	0.011 ON SEP 21	14 700	1982
1983	2.56 AT 14:27 CST ON MAY 19	2.35 ON MAY 19	0.003 ON DEC 7	9 000	1983
1984	4.30 AT 14:46 CST ON JUN 18	4.18 ON JUN 19	0 ON OCT 16	12 800	1984
1985	---	---	---	---	1985
1986	---	11.7 A ON MAY 10	0.005 ON OCT 11	20 000	1986
				18 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05OC022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	4.91	0.019	0	0	0	0	0	---	---	0.804	1971
1972	---	---	0.478	1.24	0.001	0	0	0	0	0	---	---	0.213	1972
1973	---	---	0.187	0.001	0	0	0	0	0	0.249	---	---	0.053	1973
1974	---	---	0	10.8	28.5	0.437	0	0	0	0	---	---	4.98	1974
1975	---	---	0	0.557	0.285	0.010	0.012	0	0	0	---	---	0.108	1975
1976	---	---	0	2.74	0.003	0.059	0.003	0	0	0	---	---	0.344	1976
1977	---	---	0	0.039	0.029	0.156	0	0	0	0	---	---	0.028	1977
1978	---	---	0.323	2.46	0.014	0	0	0	0.009	0.004	---	---	0.348	1978
1979	---	---	0	11.4	4.87	0.478	0.104	0	0	0	---	---	2.08	1979
1980	---	---	0	0.394	0	0	0	0	0	0	---	---	0.048	1980
1981	---	---	0.206	0.032	0.003	0.010	0	0	0	0	---	---	0.032	1981
1982	---	---	0.088	0.825	0	0	0.003	0.013	0.002	0.047	---	---	0.130	1982
1983	---	---	0.583	2.24	0.003	0.001	0.002	0	0	0	---	---	0.345	1983
1984	---	---	0.002	0.080	0.002	0.003	0	0	0	0	---	---	0.011	1984
1985	---	---	0.849	0.051	0.002	0	0	0.036	0.002	0.031	---	---	0.123	1985
1986	---	---	1.87	0.761	0.208	0.007	0.040	0.001	0	0	---	---	0.362	1986
MEAN	---	---	0.282	2.42	2.12	0.073	0.010	0.003	0.001	0.021	---	---	0.813	MEAN

LOCATION - LAT 49 03 30 N LONG 97 18 50 W
DRAINAGE AREA 201 km^2
NATURAL FLOW

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05OC022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	13.3 ON APR 13	0B ON MAR 1 *	12 800	1971
1972	---	5.64 ON APR 14	0B ON MAR 1	4 500	1972
1973	---	1.26 ON MAR 23	0B ON MAR 1	1 120	1973
1974	---	75.0 ON MAY 2 *	0B ON MAR 1	105 000	1974
1975	---	3.20 ON APR 30	0B ON MAR 1	2 290	1975
1976	---	15.3 ON APR 6	0B ON MAR 1	7 270	1976
1977	---	1.07 ON JUN 1	0B ON MAR 1	586	1977
1978	---	8.21 ON APR 9	0B ON MAR 1	7 320	1978
1979	37.8 AT 02:41 CST ON APR 19 *	36.4 ON APR 19	0B ON MAR 1	44 100	1979
1980	---	3.81 B ON APR 2	0B ON MAR 1	1 020	1980
1981	---	0.500B ON MAR 14	0B ON MAR 1	554	1981
1982	5.40 AT 01:38 CST ON APR 14	5.15 ON APR 14	0B ON MAR 1	2 750	1982
1983	8.23B AT 09:25 CST ON APR 7	7.95 B ON APR 7	0B ON MAR 1	7 300	1983
1984	---	0.377 ON APR 3	0B ON MAR 1	226	1984
1985	7.28B AT 15:40 CST ON MAR 18	6.15 B ON MAR 20	0B ON MAR 1	2 590	1985
1986	---	15.1 B ON MAR 28	0B ON MAR 1	7 880	1986
				13 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROARING RIVER NEAR MINITONAS - STATION NO OSLE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	4.31	4.90	5.00	3.80	0.282	1.89	2.84	---	---	---	1959
1960	---	---	0.080	11.3	9.35	5.87	0.698	0.187	0	0.038	---	---	3.41	1960
1961	---	---	0.042	0.444	0.784	0.149	0.008	0	0	0.003	---	---	0.179	1961
1962	---	---	0	3.07	1.45	0.360	0.058	0.008	0.299	0.542	---	---	0.715	1962
1963	---	---	0.267	4.83	3.22	1.27	0.348	0.224	0.181	0.058	---	---	1.29	1963
1964	---	---	---	1.08	2.61	0.275	0.105	0.097	0.043	0.095	---	---	---	1964
1965	---	---	0	4.30	9.31	4.57	1.89	2.84	1.78	1.24	---	---	3.19	1965
1966	---	---	0.010	8.81	11.3	8.87	3.30	0.698	0.398	1.12	---	---	4.29	1966
1967	---	---	0.170	0.987	11.5	2.99	0.519	0.170	0	0.004	---	---	2.06	1967
1968	---	---	0.883	1.62	1.83	1.71	2.40	1.93	0.912	0.271	---	---	1.39	1968
1969	---	---	0.198	5.29	2.19	2.16	0.945	0.555	0.333	2.17	---	---	1.72	1969
1970	---	---	0.213	8.27	15.3	2.21	2.58	0.727	0.893	3.11	---	---	3.80	1970
1971	---	---	0.272	15.7	4.27	3.20	1.89	1.03	0.195	0.929	---	---	3.38	1971
1972	---	---	0.288	9.30	9.18	2.10	1.44	0.272	0.084	0.186	---	---	2.84	1972
1973	---	---	0.394	1.38	1.74	7.10	4.65	0.828	1.15	1.12	---	---	2.26	1973
1974	---	---	0.335	13.9	16.1	5.09	0.440	0.424	0.899	1.36	---	---	4.79	1974
1975	---	---	0.317	8.50	12.4	7.85	1.08	0.336	1.71	2.43	---	---	4.28	1975
1976	---	---	0.355	15.7	3.15	21.4	2.46	0.496	0.257	0.193	---	---	5.42	1976
1977	---	---	0.183	4.08	1.54	0.645	1.20	1.86	4.38	2.70	---	---	2.03	1977
1978	---	---	0.287	8.22	4.28	0.913	0.458	0.035	0.205	1.23	---	---	1.84	1978
1979	---	---	0.177	11.4	22.1	6.44	0.838	0.224	0.141	0.299	---	---	5.20	1979
1980	---	---	0.177	4.54	0.888	---	---	---	---	---	---	---	---	1980
1981	---	---	0.140	1.36	1.74	1.85	0.733	0.284	0.013	0.740	---	---	0.853	1981
1982	---	---	0.022	2.84	1.98	0.752	4.85	1.15	0.181	0.596	---	---	1.55	1982
1983	---	---	0.183	6.89	9.89	4.46	6.22	0.889	0.228	0.543	---	---	3.82	1983
1984	---	---	0.245	5.12	8.58	7.88	1.45	0.170	0.175	1.51	---	---	3.25	1984
1985	---	---	0.421	15.3	4.74	3.44	1.72	4.87	1.70	3.33	---	---	4.53	1985
1986	---	---	2.22	13.2	9.84	2.84	2.45	2.37	0.884	2.03	---	---	4.41	1986
MEAN	---	---	0.285	6.80	6.87	4.11	1.78	0.821	0.892	1.14	---	---	2.90	MEAN

LOCATION - LAT 52 08 10 N, LONG 101 03 10 W. DRAINAGE AREA, 838 km². NATURAL FLOW

ROARING RIVER NEAR MINITONAS - STATION NO OSLE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	23.1 AT 18:30 CST ON JUN 29	22.7 ON JUN 30	---	---	1959
1960	47.3 B AT 19:00 CST ON APR 11	38.4 ON APR 12	0 ON AUG 30 *	72 200	1960
1961	---	1.828 ON APR 23	0 ON JUL 28	3 780	1961
1962	---	17.1 B ON APR 20	0 B ON MAR 1	15 200	1962
1963	---	10.9 B ON APR 10	0 B ON MAR 1	27 200	1963
1964	---	9.06 ON MAY 10	---	---	1964
1965	---	25.7 ON MAY 2	0 B ON MAR 1	87 500	1965
1966	---	27.7 ON JUN 27	0 B ON MAR 1	90 800	1966
1967	---	22.1 B ON MAY 1	0 ON AUG 28	43 500	1967
1968	---	8.74 ON JUL 22	0 ON JUN 28	29 500	1968
1969	---	16.6 ON APR 16	0.084 ON SEP 21	36 400	1969
1970	---	36.0 ON MAY 3	0.020 ON JUL 20	82 800	1970
1971	---	47.3 ON APR 18	0.127 ON SEP 4	71 400	1971
1972	---	41.8 ON APR 21	0.034 ON SEP 28	80 200	1972
1973	---	30.8 ON JUN 21	0.0858 ON MAR 1	47 800	1973
1974	---	88.1 ON APR 20	0.227 ON AUG 7	101 000	1974
1975	---	27.7 ON APR 30	0.249 ON SEP 2	90 800	1975
1976	145 ON JUN 15 *	131 ON JUN 15 *	0.088 ON SEP 29	115 000	1976
1977	---	12.0 B ON APR 12	0.1388 ON MAR 1	43 000	1977
1978	31.4 AT 22:15 CST ON APR 18	27.6 ON APR 18	0.007A ON AUG 22	41 100	1978
1979	---	51.9 A ON MAY 18	0.111A ON AUG 29	110 000	1979
1980	8.96 AT 03:00 CST ON APR 20	8.58 ON APR 19	---	---	1980
1981	4.71 AT 22:30 CST ON JUN 21	4.65 ON JUN 21	A ON SEP 3	18 100	1981
1982	---	25.7 A ON JUL 19	0.0138 ON MAR 27	32 900	1982
1983	---	52.1 B ON APR 24	0.136 ON SEP 25	78 800	1983
1984	38.3 AT 11:26 CST ON JUN 24	35.6 ON JUN 24	0.070E ON SEP 1	88 900	1984
1985	41.7 AT 18:08 CST ON APR 12	36.8 ON APR 21	0.2088 ON MAR 11	95 900	1985
1986	---	35.0 ON APR 11	0.184A ON SEP 10	93 400	1986
				81 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROLLING RIVER NEAR DANVERS - STATION NO OSMF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.284	0.652	0.425	0.283	0.255	0.283	0.311	---	0.355	1915
MEAN	---	---	---	---	0.284	0.652	0.425	0.283	0.255	0.283	0.311	---	0.355	MEAN

LOCATION - LAT 50 33 20 N, LONG 99 54 10 W. DRAINAGE AREA, 408 km². NATURAL FLOW

ROLLING RIVER NEAR DANVERS - STATION NO. 05MF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	1.42 ON JUN 11 *	0 ON JUN 3 *	6 570	1915
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 570	MEAN

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	---	---	---	---	---	---	---	---	1915
1916	0.142	0.113	0.113	4.24	0.853	1.14	0.777	0.362	0.442	1.03	0.481	0.142	---	1916
1917	0.227	0.268	0.411	2.57	3.87	5.33	5.97	1.48	0.495	0.653	0.570	0.283	1.94	1917
1918	0.048	0.058	0.231	2.09	5.07	1.18	1.25	0.514	1.08	0.256	0.265	0.112	1.10	1918
1919	0.132	0.028	0.073	4.08	1.38	1.50	0.757	0.501	1.14	0.451	0.283	0.201	0.729	1919
1920	0.015	0.023	0.105	0.951	8.18	2.19	0.784	0.319	0.504	0.614	0.501	0.383	1.22	1920
1921	0.178	0.147	0.227	3.53	6.97	2.80	1.17	0.848	1.70	1.15	0.777	0.389	1.85	1921
1922	0.177	0.052	0.192	4.43	7.44	2.51	1.53	1.16	0.792	---	---	---	---	1922
1961	---	---	0.191	0.975	1.48	0.122	0.007	0	0.007	0.038	---	---	---	1961
1962	---	---	0.012	0.705	0.132	1.88	0.558	0.273	0.521	0.476	---	---	---	1962
1963	---	---	0.226	5.78	3.81	4.82	1.82	0.558	0.840	0.545	---	---	---	1963
1984	---	---	0.153	2.34	4.55	0.953	0.805	0.517	0.222	0.175	---	---	---	1984
1985	---	---	0.068	1.87	10.3	5.23	2.10	1.35	5.80	1.75	---	---	---	1985
1986	---	---	0.032	3.89	7.33	2.72	0.925	2.05	0.511	0.482	---	---	---	1986
1987	---	---	0.301	4.70	8.37	3.81	1.16	0.513	0.008	0.418	---	---	---	1987
1988	---	---	0.692	2.73	2.47	1.30	1.45	3.83	2.06	0.887	---	---	---	1988
1989	---	---	0.235	6.22	4.78	3.52	9.44	1.88	1.08	0.936	---	---	---	1989
1970	---	---	0.391	1.38	25.0	7.05	3.45	1.23	0.885	0.978	---	---	---	1970
1971	---	---	0.212	5.39	3.86	8.95	4.32	1.89	0.707	2.41	---	---	---	1971
1972	0.871	0.328	0.289	4.58	7.94	3.30	0.895	0.403	0.384	0.463	0.351	0.028	1.83	1972
1973	0	0	0.280	1.03	1.22	2.71	0.868	0.848	1.91	2.59	0.875	0.625	1.08	1973
1974	0.289	0.329	0.386	5.11	14.1	5.95	1.14	0.351	0.329	0.305	0.306	0.251	2.42	1974
1975	0.227	0.215	0.223	1.41	6.27	4.15	0.984	2.44	12.8	5.88	2.84	1.54	3.25	1975
1976	1.01	0.713	0.838	10.1	6.03	4.52	1.40	0.492	0.183	0.101	0.126	0.085	2.13	1976
1977	0.078	0.082	0.170	0.843	1.24	0.602	2.53	0.571	1.85	1.90	0.873	0.573	0.833	1977
1978	0.380	0.312	0.281	3.03	3.84	1.81	0.527	0.061	0.410	0.570	0.411	0.242	0.983	1978
1979	0.172	0.184	0.206	3.85	16.4	6.80	1.64	0.396	0.109	0.184	0.245	0.241	2.56	1979
1980	0.161	0.171	0.237	2.10	0.631	0.207	0.527	2.15	2.45	1.67	1.39	1.10	1.07	1980
1981	0.432	0.182	0.377	3.43	1.72	1.90	0.754	0.349	0.212	0.832	0.709	0.183	0.923	1981
1982	0.033	0.013	0.012	5.12	3.95	1.02	0.755	0.672	0.167	0.884	0.848	0.194	1.15	1982
1983	0.071	0.077	0.135	5.77	7.38	4.06	3.10	0.584	0.048	0.131	0.154	0.072	1.81	1983
1984	0.044	0.065	0.329	1.84	3.15	2.73	1.01	0.091	0.127	0.550	0.555	0.425	0.818	1984
1985	0.270	0.211	0.243	5.21	2.70	1.28	1.07	2.79	1.87	2.48	0.737	0.278	1.60	1985
1986	0.254	0.218	0.520	8.51	14.3	2.69	1.82	1.21	0.723	1.67	0.857	0.650	2.80	1986
MEAN	0.224	0.173	0.255	3.62	5.86	2.98	1.73	0.970	1.29	1.03	0.662	0.372	1.56	MEAN

LOCATION - LAT 50 31 12 N
LONG 99 56 27 W

DRAINAGE AREA, 780 km^2
NATURAL FLOW

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	---	---	81 400	1916
1917	---	17.4 ON JUN 30	0.1138 ON FEB 1	34 800	1917
1918	---	10.7 ON APR 30	0.0578 ON DEC 27	23 000	1918
1919	---	5.38 ON APR 21	0.0288 ON JAN 9	28 300	1919
1920	---	9.00 ON APR 11	0 B ON FEB 17 *	38 800	1920
1921	---	16.5 ON MAY 12	0 B ON JAN 15	51 800	1921
1922	---	12.9 ON MAY 25	0.1138 ON JAN 18	---	1922
1961	---	12.1 ON MAY 17	---	---	1961
1962	---	2.48 ON MAY 10	0 ON JUL 13	---	1962
1963	---	3.28 ON JUN 3	0 ON MAY 9	---	1963
1964	---	8.81 ON APR 21	0 B ON MAR 1	---	1964
1965	---	8.16 ON MAY 8	0.119 ON SEP 28	---	1965
1966	---	23.2 ON MAY 4	0.0858 ON MAR 1	---	1966
1967	---	14.2 ON MAY 10	0 B ON MAR 1	---	1967
1968	---	11.6 ON MAY 12	0 ON SEP 25	---	1968
1969	---	6.88 ON AUG 5	0.1428 ON MAR 1	---	1969
1970	---	27.2 ON JUL 1	0.1428 ON MAR 1	---	1970
1971	---	60.3 ON MAY 11 *	0.348 ON SEP 11	---	1971
1972	13.1 AT 18:09 CST ON APR 30	16.7 ON JUN 12	0.2128 ON MAR 1	51 500	1972
1973	6.48 AT 18:23 CST ON JUN 24	13.0 ON APR 30	0 B ON DEC 17	34 100	1973
1974	21.9 AT 21:05 CST ON MAY 14	6.43 ON JUN 24	0 B ON JAN 1	78 100	1974
1975	52.1 AT 17:40 CST ON SEP 21 *	21.1 ON APR 30	0.193 ON AUG 27	102 000	1975
1976	19.8 AT 21:29 CST ON APR 17	47.9 ON SEP 22	0.1938 ON APR 3	87 200	1976
1977	8.98 AT 03:15 CST ON JUL 17	19.5 ON APR 17	0.037 ON OCT 5	29 400	1977
1978	8.52 AT 23:59 CST ON APR 30	8.86 ON JUL 17	0.0718 ON JAN 17	30 900	1978
1979	31.8 AT 07:06 CST ON MAY 20	8.44 ON MAY 1	0.003 ON SEP 12	80 700	1979
1980	5.06 AT 04:25 CST ON AUG 27	31.6 ON MAY 20	0.046 ON OCT 1	33 700	1980
1981	7.298 AT 19:58 CST ON APR 6	4.88 ON AUG 27	0.108 ON AUG 3	29 100	1981
1982	12.7 B AT 22:38 CST ON APR 19	5.848 ON APR 6	0.004 ON SEP 21	36 300	1982
1983	27.1 AT 11:45 CST ON APR 27	12.3 ON APR 22	0.0018 ON FEB 16	57 000	1983
1984	8.28 AT 00:28 CST ON JUN 28	26.7 ON APR 27	0.033 ON SEP 22	29 000	1984
1985	10.7 AT 18:08 CST ON APR 19	8.04 ON JUN 28	0.0298 ON JAN 25	50 400	1985
1986	38.3 AT 18:45 CST ON MAY 6	10.7 ON APR 19	0.112 ON AUG 3	88 400	1986
		37.5 ON MAY 6	0.1988 ON MAR 19	48 300	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT DOMINION CITY - STATION NO. 05OD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	5.87	1.70	3.21	5.28	30.0	22.5	8.80	---	1912
MEAN	---	---	---	---	---	5.87	1.70	3.21	5.28	30.0	22.5	8.80	---	MEAN

LOCATION - LAT 49 08 50 N
LONG 97 08 00 W

DRAINAGE AREA, 5 820 km^2
NATURAL FLOW

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	22.0	19.3	23.8	4.87	0.676	1.47	1.70	0.850	---	1915
1916	0.227	0.170	0.255	41.2	59.7	19.8	5.82	2.77	2.37	2.59	2.43	0.113	16.7	1916
1917	0.391	0.312	0.505	12.8	15.2	2.75	2.56	1.24	0.488	0.899	1.88	0.810	4.87	1917
1918	0.045	0	---	---	4.10	5.59	2.80	1.41	0.972	1.56	3.34	1.42	---	1918
1919	0.821	0.368	0.736	---	8.86	9.80	44.5	15.8	2.41	1.99	1.72	0.926	---	1919
1920	0.334	0.371	---	24.1	10.8	11.2	1.00	0.124	0.403	1.21	0.863	0.201	---	1920
1921	0.127	0.227	---	21.0	9.23	4.97	1.17	0.862	1.80	1.89	0.831	0.510	---	1921
1922	0.173	0.085	---	16.8	24.0	13.8	3.03	1.39	4.94	---	4.13	1.07	---	1922
1982	0.204	0.232	---	17.8	40.6	58.8	30.9	23.5	8.86	0.284	3.57	2.30	---	1982
1983	0.289	0.235	2.10	36.2	20.2	23.3	6.09	1.48	0.251	0.899	0.787	0.187	11.4	1983
1984	0.034	0.024	0	16.7	21.8	20.3	23.3	2.35	2.89	18.1	8.81	1.08	13.2	1984
1985	0.082	0.037	0	37.1	70.1	42.2	23.5	2.56	5.51	17.6	15.7	7.70	24.8	1985
1986	3.11	1.78	9.54	70.6	78.1	43.4	16.0	4.57	3.70	1.42	1.31	1.55	26.4	1986
1987	0.348	0.136	0.881	55.4	85.3	2.4	3.18	0.240	0.011	0.021	0.275	0.513	18.3	1987
1988	0.204	0.051	0.725	19.7	5.61	31.8	48.8	46.3	44.9	17.6	11.6	3.84	27.0	1988
1989	0.799	0.631	0.898	46.8	62.0	20.3	4.02	3.82	1.71	3.79	2.84	1.71	17.9	1989
1970	1.20	0.662	0.488	23.9	88.5	78.6	37.9	1.59	3.39	2.24	7.18	1.43	29.5	1970
1971	0.147	0.149	0.436	34.8	26.6	8.84	3.88	1.24	0.857	3.45	9.58	1.86	9.80	1971
1972	0.807	0.315	1.71	24.0	32.8	9.92	1.84	0.616	0.435	1.13	1.08	0.202	9.00	1972
1973	0.178	0.187	8.23	2.70	3.34	2.10	0.800	2.17	4.58	15.9	8.31	1.31	4.74	1973
1974	0.438	0.385	0.432	25.4	80.0	56.8	5.38	13.5	13.1	3.91	2.97	1.03	24.7	1974
1975	0.809	0.711	0.817	15.9	65.5	33.1	36.8	3.82	0.884	0.585	0.848	0.413	19.7	1975
1976	---	---	0.425	28.7	7.57	3.78	2.84	0.357	0.177	0.483	---	---	5.45	1976
1977	---	---	0.407	4.75	1.70	1.90	1.70	0.347	1.05	5.00	---	---	2.16	1977
1978	---	---	0.281	30.0	43.2	5.84	11.1	5.40	4.43	1.74	---	---	12.7	1978
1979	---	---	0.378	19.5	74.6	34.8	3.18	0.453	0.237	0.182	---	---	18.7	1979
1980	---	---	0.258	18.0	2.86	0.240	0.028	0.029	0.148	0.858	---	---	2.72	1980
1981	---	---	2.88	1.57	1.55	8.43	8.34	2.00	3.82	10.5	---	---	4.89	1981
1982	---	---	0.870	29.3	36.2	8.79	8.39	3.88	1.26	17.4	---	---	13.2	1982
1983	---	---	27.0	37.8	22.1	18.4	14.3	0.880	1.49	3.00	---	---	15.8	1983
1984	---	---	2.18	23.2	7.80	19.4	9.12	1.08	0.114	2.42	---	---	8.08	1984
1985	---	---	2.53	25.8	21.5	24.0	32.7	25.9	35.8	21.2	---	---	23.6	1985
1986	---	---	5.67	65.1	72.1	25.6	4.83	0.987	0.450	1.29	---	---	21.9	1986
MEAN	0.494	0.336	2.52	27.5	33.6	21.0	12.9	5.37	4.85	5.07	4.08	1.35	14.9	MEAN

LOCATION - LAT 49 05 16 N DRAINAGE AREA, 4 470 km²
LONG 96 41 15 W NATURAL FLOW

ROSEAU RIVER AT GARDENTON - STATION NO 05OD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	89.8 ON APR 30	0.057 ON AUG 2	385 000	1916
1917	---	26.8 ON APR 28	0.113 ON SEP 19	98 800	1917
1918	---	---	---	---	1918
1919	---	86.3 ON JUL 21	---	---	1919
1920	---	50.1 ON APR 18	0 ON AUG 21 *	---	1920
1921	---	48.4 ON APR 16	---	---	1921
1922	---	35.7 ON MAY 29	---	---	1922
1982	---	71.9 ON JUN 15	0 ON OCT 16	---	1982
1983	---	43.3 ON APR 28	0 B ON MAR 1	242 000	1983
1984	---	37.7 ON JUL 4	0 B ON MAR 1	275 000	1984
1985	---	85.8 ON MAY 6	0 B ON MAR 1	534 000	1985
1986	---	101 ON MAY 4	1.13 ON OCT 12	602 000	1986
1987	---	78.0 ON APR 21	0 B ON MAR 1	387 000	1987
1988	---	57.8 ON JUN 30	0.1428 ON MAR 1	571 000	1988
1989	---	83.8A ON APR 28	0.9038 ON MAR 1	378 000	1989
1970	103 AT 15 00 CST ON MAY 16 *	102 ON MAY 16 *	0.2838 ON APR 12	635 000	1970
1971	53.5 AT 00 38 CST ON APR 21	53.2 ON APR 21	0.3288 ON MAR 11	209 000	1971
1972	---	47.6 ON MAY 1	0.283E ON SEP 1	191 000	1972
1973	---	21.2 ON OCT 2	0.2558 ON MAR 1	100 000	1973
1974	96.3 AT 13 00 CST ON MAY 21	95.1 ON MAY 21	0.4088 ON MAR 17	523 000	1974
1975	72.8 AT 00 33 CST ON MAY 10	72.5 ON MAY 9	0.422 ON OCT 3	418 000	1975
1976	44.78 AT 21 21 CST ON APR 6	40.2 ON APR 7	0.083 ON SEP 26	115 000	1976
1977	14.88 AT 18 22 CST ON APR 10	10.58 ON APR 10	0.1428 ON MAR 1	44 500	1977
1978	83.1 AT 18 08 CST ON APR 27	82.6 ON APR 27	0.2328 ON MAR 1	285 000	1978
1979	90.6 AT 11 43 CST ON MAY 12	88.0 ON MAY 12	0.003 ON OCT 1	353 000	1979
1980	43.0 AT 03 33 CST ON APR 14	39.58 ON APR 14	0 ON JUL 10	67 400	1980
1981	19.0 AT 11 10 CST ON JUL 4	18.9 ON JUL 4	0.482 ON SEP 5	101 000	1981
1982	---	47.2A ON MAY 4	0.2858 ON MAR 28	280 000	1982
1983	56.8 AT 14 38 CST ON APR 8	51.9 ON APR 8	0.307 ON AUG 27	330 000	1983
1984	47.4 AT 15 52 CST ON APR 4	39.3 ON APR 4	0.040 ON OCT 10	171 000	1984
1985	41.8 AT 00 24 CST ON APR 4	40.7 ON JUL 18	0.1098 ON MAR 15	500 000	1985
1986	78.7 AT 04 51 CST ON MAY 2	78.9 ON MAY 2	0.241 ON AUG 24	484 000	1986
				315 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT STUARTBURN - STATION NO 05OD014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1924	---	---	---	---	21.2	5.65	2.27	5.13	2.03	5.53	---	---	---	1924
1925	---	---	---	27.7	14.2	42.0	45.8	3.36	4.14	5.31	---	---	---	1925
1926	---	---	---	15.6	5.27	17.3	33.6	4.89	7.54	19.0	---	---	---	1926
1927	---	---	---	62.3	78.0	55.5	14.1	1.43	2.67	3.74	4.25	---	---	1927
1928	---	---	---	9.90	8.27	20.1	45.7	17.6	5.03	3.77	---	---	---	1928
1929	---	---	---	15.6	5.28	5.28	2.12	0.220	0.278	---	---	---	---	1929
1930	---	---	---	---	19.8	6.28	10.9	0.524	0.185	---	---	---	---	1930
1934	---	---	---	5.92	1.88	1.37	0.472	0.051	0.047	0.938	---	---	---	1934
1935	---	---	---	15.2	8.44	2.50	3.29	1.29	1.29	0.726	---	---	---	1935
1936	---	---	---	12.6	17.3	2.89	0.294	0.004	0.521	---	---	---	---	1936
1962	---	---	0	13.3	42.7	80.5	27.3	24.6	10.4	1.86	---	---	22.5	1962
1963	---	---	2.09	36.5	23.4	24.9	8.42	1.52	0.250	0.699	---	---	12.1	1963
1964	---	---	0	18.2	25.9	22.2	24.3	2.50	2.84	23.1	---	---	14.9	1964
1965	---	---	0	37.4	71.3	42.6	24.4	3.88	7.43	22.6	---	---	28.2	1965
1966	---	---	10.5	75.5	87.9	46.6	16.7	5.31	4.82	1.97	---	---	31.0	1966
1967	---	---	0.711	58.3	58.3	23.3	3.70	0.583	0.034	0.049	---	---	19.3	1967
1968	---	---	0.738	20.7	5.36	32.8	50.8	48.7	47.4	20.6	---	---	28.3	1968
1969	---	---	0.998	45.8	63.7	20.8	3.97	4.05	1.90	4.44	---	---	18.2	1969
MEAN	---	---	1.88	28.4	31.6	24.0	17.7	7.03	5.53	7.78	4.25	---	21.6	MEAN

LOCATION - LAT 49 07 57 N
LONG 96 46 09 W
DRAINAGE AREA 6 500 km²
NATURAL FLOW

ROSEAU RIVER AT STUARTBURN - STATION NO 05OD014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	65.4 ON JUL 3	---	---	1926
1927	---	47.3 ON JUL 5	---	---	1927
1928	---	114 ON MAY 24	---	---	1928
1929	---	51.3 ON JUL 6	---	---	1929
1930	---	26.9R ON APR 11	---	---	1930
1934	---	---	---	---	1934
1935	---	---	0 ON SEP 17 *	---	1935
1936	---	---	0.388 ON AUG 11	---	1936
1962	---	75.0 ON JUN 18	0 B ON MAR 1	477 000	1962
1963	---	47.9 ON APR 28	0 B ON MAR 1	357 000	1963
1964	---	39.6 ON JUN 24	0 B ON MAR 1	315 000	1964
1965	---	94.0 ON MAY 6	0 B ON MAR 1	554 000	1965
1966	---	116 ON MAY 4 *	0.985 ON SEP 30	655 000	1966
1967	---	84.4 ON APR 21	0 B ON MAR 1	408 000	1967
1968	---	83.1 ON JUL 3	0.1428 ON MAR 1	599 000	1968
1969	---	83.5 ON MAY 1	0.9038 ON MAR 1	385 000	1969
MEAN				456 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO 05OD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	18.4	19.8	19.6	9.71	2.52	4.96	8.18	7.93	1.84	---	1914
1915	0.283	0.227	0.425	10.2	21.7	19.5	37.4	5.32	0.732	1.50	2.55	1.27	7.68	1915
MEAN	0.283	0.227	0.425	14.3	20.8	19.5	18.6	3.92	2.85	4.84	5.24	1.56	7.68	MEAN

LOCATION - LAT 49 08 55 N
LONG 97 10 00 W
DRAINAGE AREA 5 830 km²
NATURAL FLOW

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO 05OD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1914	---	---	---	---	1914
1915	---	38.2 ON JUL 11 *	0.2278 ON FEB 1 *	242 000	1915
MEAN				242 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR CARIBOU - STATION NO 05OD030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	20.4	13.0	1.71	1.61	0.485	0.501	---	---	---	---	1917
1920	---	---	---	17.5	10.9	11.8	1.30	0.481	0.851	0.917	0.906	0.507	---	1920
1921	0.340	0.311	0.283	27.4	8.20	3.39	0.815	0.786	1.86	1.48	0.893	0.566	3.85	1921
1922	0.510	0.426	0.566	14.1	25.7	11.4	2.86	1.33	4.80	1.86	4.99	1.88	5.86	1922
1923	1.42	0.850	1.02	20.1	53.0	3.09	2.92	1.06	0.885	1.27	1.14	0.834	7.37	1923
1924	0.850	1.67	2.94	14.9	19.5	5.26	2.15	5.52	1.75	6.17	4.03	1.20	5.51	1924
1925	1.19	1.29	6.45	27.3	13.3	42.7	43.1	2.11	3.67	5.88	7.52	2.43	13.1	1925
1926	1.59	1.06	4.10	12.2	4.71	20.6	33.5	2.45	4.91	13.8	10.8	6.41	9.73	1926
1927	3.79	2.13	5.55	57.8	71.8	46.8	10.1	1.18	1.28	2.56	4.25	1.56	17.4	1927
1928	1.13	0.855	3.21	11.7	4.91	19.8	42.9	10.9	3.56	1.95	1.98	1.03	8.70	1928
1929	0.583	0.473	5.30	15.7	5.63	5.32	1.93	0.445	0.477	0.779	0.985	0.353	3.25	1929
1930	0.283	0.227	0.425	16.0	28.3	7.03	13.3	0.768	0.310	0.783	2.20	---	---	1930
1931	---	---	---	13.2	6.03	2.88	1.30	0.474	0.463	0.888	2.54	---	---	1931
1932	---	---	---	28.8	17.7	2.53	2.36	0.486	1.17	2.20	4.67	1.90	---	1932
1933	0.845	0.483	0.707	25.3	12.4	7.85	0.285	0.112	0.190	0.254	0.302	---	---	1933
1934	---	---	---	4.88	1.73	1.39	0.562	0.123	0.170	0.639	---	---	---	1934
1935	---	---	---	13.7	7.71	2.55	3.04	1.52	1.23	0.755	---	---	---	1935
1936	---	---	---	11.9	15.6	2.25	0.251	0.059	0.433	0.281	0.253	0.148	---	1936
1937	0.170	0.170	0.283	12.2	31.2	9.20	8.41	23.6	2.15	1.02	0.847	0.349	7.55	1937
1938	---	---	8.31	9.46	35.5	23.2	1.54	0.287	0.180	0.229	---	---	---	1938
1939	---	---	---	3.07	2.30	2.73	0.702	0.150	0.301	0.417	---	---	---	1939
1940	---	---	---	5.76	4.88	1.58	0.319	0.712	0.811	0.742	3.85	1.27	---	1940
1941	0.826	0.574	0.426	27.8	22.1	18.7	4.09	0.202	9.07	36.9	8.22	1.02	10.8	1941
1942	0.303	0.389	5.36	49.9	42.8	13.6	0.971	4.59	18.9	3.89	1.24	0.507	11.8	1942
1943	0.366	0.355	0.481	32.5	31.0	31.9	25.4	2.42	1.79	---	---	---	---	1943
1944	---	---	---	13.8	8.76	26.8	19.8	8.01	8.61	---	---	---	---	1944
1945	---	---	---	46.0	32.2	6.89	7.72	4.65	16.8	11.5	3.31	---	---	1945
1946	---	---	12.6	39.8	17.9	2.36	3.13	0.498	0.645	0.994	0.898	---	---	1946
1947	---	---	---	12.1	12.4	32.3	21.7	8.16	3.32	8.66	---	---	---	1947
1948	---	---	---	27.6	58.0	8.89	7.76	12.2	0.843	0.551	---	---	---	1948
1949	---	---	0.849	28.1	20.7	5.05	2.10	2.53	0.525	---	---	---	---	1949
1950	---	---	---	9.85	85.8	59.0	36.9	8.62	16.2	22.4	---	---	---	1950
1951	---	---	---	41.0	51.8	7.33	1.18	1.72	4.21	3.82	---	---	---	1951
1952	---	---	---	15.6	3.61	2.34	7.44	1.66	0.506	0.404	---	---	---	1952
1953	---	---	---	8.01	8.26	12.2	3.88	0.828	1.46	1.82	---	---	---	1953
1954	---	---	---	17.3	27.7	19.9	2.10	0.460	0.508	0.488	---	---	---	1954
1955	---	---	---	21.3	16.6	24.6	5.32	0.684	0.740	2.58	---	---	---	1955
1956	---	---	---	22.8	55.1	24.4	28.2	7.37	21.4	2.52	---	---	---	1956
1957	---	---	---	28.3	27.5	23.3	45.5	11.0	25.9	16.1	10.6	---	---	1957
1958	---	---	---	4.89	2.46	1.79	16.5	2.06	0.367	1.23	---	---	---	1958
1959	---	---	---	33.2	26.7	14.9	5.04	1.46	1.69	5.57	---	---	---	1959
1960	---	---	---	28.8	24.1	11.9	4.78	0.890	0.393	---	---	---	---	1960
1961	---	---	---	9.03	7.00	0.956	0.174	0.090	1.12	1.52	---	---	---	1961
1962	---	---	---	15.1	35.7	53.3	25.5	26.8	10.9	---	---	---	---	1962
1963	---	---	---	34.6	20.9	23.8	8.83	1.58	0.355	0.763	---	---	---	1963
1964	---	---	---	16.8	22.9	23.0	22.6	2.80	4.56	18.7	---	---	---	1964
1965	---	---	---	36.7	65.7	39.5	23.5	3.67	7.94	19.2	---	---	---	1965
1966	---	---	---	81.4	73.5	37.7	14.5	4.27	3.10	1.79	2.14	---	---	1966
1967	---	---	---	47.0	63.3	20.4	3.15	0.466	0.049	0.054	0.104	---	---	1967
1968	---	---	---	18.9	4.41	32.6	46.8	44.7	41.1	16.9	---	---	---	1968
1969	---	---	---	40.2	56.7	17.7	3.81	3.80	2.01	4.24	---	---	---	1969
1970	---	---	---	23.9	78.4	73.3	34.2	1.26	3.04	2.26	---	---	---	1970
1971	---	---	---	33.1	23.7	7.87	3.78	1.24	0.750	3.34	---	---	---	1971
1972	---	---	---	22.6	31.6	9.82	1.51	0.489	0.595	0.892	1.30	0.448	---	1972
1973	0.278	0.248	5.87	2.76	3.07	2.24	0.971	2.34	5.31	14.2	4.03	1.14	3.84	1973
1974	0.441	0.380	0.394	23.6	73.6	55.6	4.97	14.8	12.9	3.56	3.07	1.27	16.3	1974
1975	0.820	0.711	0.521	16.9	66.0	31.4	34.8	2.89	0.838	0.556	0.918	0.579	13.2	1975
1976	0.497	0.464	0.535	28.2	6.40	3.64	2.57	0.277	0.163	0.389	0.394	0.181	3.61	1976
1977	0.107	0.122	0.385	4.44	1.41	1.61	1.80	0.301	1.30	4.43	5.70	3.47	2.08	1977
1978	1.22	0.398	0.195	30.9	42.7	5.25	11.4	5.63	4.77	1.68	1.00	0.672	8.86	1978
1979	0.489	0.348	0.534	19.7	74.8	31.7	3.33	0.479	0.247	0.104	0.624	0.458	11.1	1979
1980	0.431	0.387	0.386	17.2	2.24	0.190	0.018	0.077	0.169	0.704	1.14	0.325	1.82	1980
1981	0.112	0.530	2.09	1.08	1.53	10.2	8.75	1.68	3.88	11.4	6.16	2.80	4.17	1981
1982	0.416	0.385	0.590	23.2	34.6	7.99	6.09	3.63	1.08	16.7	7.17	2.34	8.91	1982
1983	0.862	0.730	12.5	33.5	20.2	16.9	13.4	0.858	1.46	3.08	3.05	1.52	9.02	1983
1984	0.399	0.442	2.63	22.9	7.39	17.8	7.64	0.827	0.053	2.46	2.73	0.682	5.47	1984
1985	0.281	0.171	3.42	26.7	21.9	23.6	33.2	24.7	35.4	20.6	7.32	1.81	16.6	1985
1986	0.891	0.755	4.37	58.3	61.0	22.2	3.99	0.782	0.518	1.36	1.11	0.810	13.0	1986
MEAN	0.742	0.598	2.97	23.0	27.5	17.0	11.0	4.20	4.54	5.07	3.19	1.30	8.57	MEAN

LOCATION - LAT 48 58 54 N LONG 95 27 46 W DRAINAGE AREA 4 150 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

REMARKS - PUBLISHED AS "AT CARIBOU" PRIOR TO APR 1929 AND AS "BELOW CUTOFF DITCH NEAR CARIBOU" FROM APR 1929-SEP 1936

ROSEAU RIVER NEAR CARIBOU - STATION NO 05DD030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1917	41.6 ON APR 17	38.8 ON APR 17	---	---	1917
1920	48.7 B ON APR 15	45.3 B ON APR 15	---	---	1920
1921	---	56.1 ON APR 11	---	---	1921
1922	---	38.5 ON MAY 25	0 2838 ON MAR 1	122 000	1922
1923	---	84.4 ON MAY 1	0 4258 ON FEB 1	185 000	1923
1924	---	34.8 ON APR 28	0 823 ON SEP 2	232 000	1924
1926	---		0 4538 ON DEC 18	174 000	1926
1928	---	60.8 ON JUL 1			1928
1927	89.8	53.8 ON JUL 8	0 7938 ON JAN 1	413 000	1927
1928	ON MAY 24	89.5 ON MAY 24	0 8788 ON MAR 13	307 000	1928
1929	---	47.3 ON JUL 6	0 793 ON AUG 28	549 000	1929
1930	---	27.8 ON APR 10	0 7388 ON DEC 8	275 000	1930
1931	32.3	39.1 ON MAY 20	0.311 ON AUG 30	102 000	1931
1932	ON APR 9	31.1 ON APR 9	---	---	1932
1933	---	48.4 ON APR 16	---	---	1933
1934	12.0 B AT 13 00 CST ON APR 13	38.2 B ON APR 17	---	---	1934
1935	26.1 B AT 10 00 CST ON APR 13	10.7 B ON APR 13	---	---	1935
1936	---	22.7 B ON APR 18	---	---	1936
1937	---	28.9 ON APR 27	0 1709 ON JAN 1	238 000	1937
1938	---	38.5 ON MAY 11	---	---	1938
1939	9.838 AT 09 00 CST ON APR 20	49.6 ON MAY 25	---	---	1939
1940	23.6 B	7.388 ON APR 20	---	---	1940
1941	ON APR 22	22.7 B ON APR 22	0 142 ON AUG 12	342 000	1941
1942	---	47.0 ON APR 24	0 1988 ON JAN 15	374 000	1942
1943	---	58.6 ON APR 13	---	---	1943
1944	---	48.1 ON APR 21	---	---	1944
1945	---	36.0 ON JUN 27	---	---	1945
1946	44.2 AT 15 30 CST ON APR 14	48.8 ON APR 12	---	---	1946
1947	---	43.0 ON APR 5	---	---	1947
1948	---	50.4 ON JUN 28	---	---	1948
1949	---	89.7 ON MAY 2	---	---	1949
1950	116 AT 20 30 CST ON MAY 19 *	41.8 ON APR 24	---	---	1950
1951	82.3 AT 16 00 CST ON MAY 2	114 ON MAY 19 *	---	---	1951
1952	---	62.0 ON MAY 2	---	---	1952
1953	22.6 AT 08 00 CST ON JUN 6	30.3 ON APR 12	---	---	1953
1954	---	22.5 ON JUN 6	---	---	1954
1955	---	32.8 ON MAY 8	---	---	1955
1956	---	30.6 ON JUN 13	---	---	1956
1957	---	85.1 ON MAY 2	---	---	1957
1958	50.7 AT 11 00 CST ON JUL 12	50.4 ON JUL 19	---	---	1958
1959	24.8 AT 12 00 CST ON JUL 20	24.7 ON JUL 20	---	---	1959
1960	---	44.5 ON APR 20	---	---	1960
1961	46.7 AT 20 00 CST ON APR 27	46.4 ON APR 28	---	---	1961
1962	17.3 B ON MAR 29	17.0 B ON MAR 30	---	---	1962
1963	58.6 AT 03 30 CST ON JUN 11	58.3 ON JUN 11	---	---	1963
1964	---	42.8 ON APR 25	---	---	1964
1965	---	40.5 ON JUL 1	---	---	1965
1966	76.2 AT 10 15 CST ON MAY 8	75.9 ON MAY 8	---	---	1966
1967	88.3 AT 21 00 CST ON APR 28	88.1 ON APR 28	---	---	1967
1968	88.2 AT 02 00 CST ON MAY 12	68.0 ON MAY 11	---	---	1968
1969	---	52.7 ON JUL 2	---	---	1969
1970	70.2 AT 15 00 CST ON APR 28	89.9 ON APR 28	---	---	1970
1971	83.3 AT 15 00 CST ON MAY 15	83.0 ON MAY 15	---	---	1971
1972	49.3 AT 19 00 CST ON APR 21	49.0 ON APR 20	---	---	1972
1973	47.9 AT 02 00 CST ON MAY 2	47.5 ON APR 30	---	---	1973
1974	---	20.5 ON OCT 1	---	---	1974
1975	77.0 ON MAY 14	76.5 ON MAY 28	0 2278 ON FEB 11	115 000	1975
1976	---	71.9 ON MAY 8	0 3689 ON FEB 13	513 000	1976
1977	37.7 AT 00 30 CST ON APR 8	37.4 ON APR 8	0.311 ON OCT 11	416 000	1977
1978	10.8 B ON APR 10	10.3 B ON APR 10	0 091 ON SEP 29	114 000	1978
1979	84.0 AT 12 30 CST ON APR 28	82.9 ON APR 27	0 0998 ON JAN 17	85 500	1979
	84.4 ON MAY 8	84.1 ON MAY 8	0 1848 ON MAR 14	279 000	1980
1980	28.7 AT 15 00 CST ON APR 14	29.7 ON APR 14	0 057 ON OCT 15	351 000	1981
1981	21.0 AT 13 00 CST ON JUL 4	20.9 ON JUL 4	0 001 ON AUG 3 *	80 800	1982
1982	47.1 AT 18 30 CST ON MAY 1	47.0 ON APR 30	0 0998 ON JAN 11	131 000	1983
1983	38.6 B ON APR 8	38.4 B ON APR 8	0 3408 ON JAN 18	281 000	1984
1984	34.8 B AT 05 00 CST ON APR 3	34.0 B ON APR 3	0 221 ON AUG 27	285 000	1985
1985	42.2 ON JUL 16	42.2 ON JUL 17	0 008 ON OCT 4	173 000	1986
1986	67.1 ON MAY 13	65.8 ON APR 16	0 1478 ON FEB 25	523 000	MEAN
			0 229 ON AUG 21	410 000	
				270 000	

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	0.586	0	0	32.9	19.1	8.42	4.91	1.93	1.80	2.36	2.42	1.13	6.10	1913
1914	0.170	0.142	0.708	16.1	17.7	17.0	8.44	2.12	---	---	---	---	---	1914
1916	---	---	---	---	---	---	5.32	2.98	2.79	2.72	2.31	0.395	---	1916
1917	0.500	0.333	0.635	13.1	15.0	2.46	2.13	0.840	0.517	0.642	2.53	0.713	3.29	1917
1918	0.080	0	0.763	4.92	3.75	6.13	3.41	1.34	0.805	1.45	4.02	1.67	2.36	1918
1919	0.954	0.526	0.870	19.0	9.89	9.59	46.0	19.8	3.46	2.84	1.98	1.21	9.75	1919
1920	0.532	0.526	1.62	31.1	12.2	13.0	1.61	0.372	0.480	1.25	0.847	0.311	5.29	1920
1921	0.227	0.340	0.651	24.1	10.8	4.94	1.21	1.02	1.75	1.95	0.801	0.714	4.03	1921
1922	0.289	0.142	0.462	16.9	23.7	15.2	2.95	1.56	4.86	2.18	4.32	1.38	6.17	1922
1923	0.868	0.884	0.432	18.4	58.3	5.76	4.24	1.48	1.20	2.01	2.06	0.954	8.12	1923
1924	0.080	0.030	0.113	18.6	23.4	6.18	2.38	5.44	2.11	6.84	2.71	0.730	5.72	1924
1925	0.240	0.259	3.88	27.9	15.1	46.4	44.7	4.38	5.21	7.08	4.12	1.20	13.6	1925
1926	0.484	0.282	2.55	16.9	5.14	17.0	33.8	5.04	10.4	23.8	9.66	2.97	10.7	1926
1927	2.00	1.40	7.29	64.2	87.4	56.4	15.0	2.38	2.66	4.23	---	---	---	1927
1928	---	---	---	7.92	7.12	17.2	41.8	15.6	4.98	3.63	---	---	---	1928
1929	---	---	---	17.8	5.83	5.74	2.03	0.483	0.390	0.861	---	---	---	1929
1930	---	---	---	17.6	29.5	8.06	13.9	0.861	0.216	0.936	---	---	---	1930
1931	---	---	---	13.4	4.42	3.56	1.41	0.538	0.801	1.00	3.14	---	---	1931
1932	---	---	---	32.8	22.4	3.56	3.27	0.393	1.29	2.31	---	---	---	1932
1933	---	---	---	27.8	15.4	11.6	0.415	0.047	0.121	0.267	---	---	---	1933
1934	---	---	---	5.45	1.85	1.13	0.553	0.025	0.026	0.868	---	---	---	1934
1935	---	---	---	15.2	6.93	2.80	3.05	1.41	1.39	0.817	---	---	---	1935
1936	---	---	---	11.0	17.9	2.93	0.259	0.001	0.283	0.196	---	---	---	1936
1937	---	---	---	13.2	36.2	10.7	7.25	26.7	3.13	1.38	---	---	---	1937
1938	---	---	---	10.1	33.6	27.7	2.10	0.442	0.181	0.235	---	---	---	1938
1939	---	---	---	3.81	3.04	2.94	0.918	0.031	0.189	0.484	0.399	---	---	1939
1940	---	---	---	5.08	5.50	1.41	0.248	0.393	0.883	0.714	---	---	---	1940
1941	---	---	---	25.1	25.1	18.0	5.41	0.282	7.95	41.8	---	---	---	1941
1942	---	---	---	55.5	44.7	17.8	1.16	3.83	19.6	4.56	---	---	---	1942
1943	---	---	---	34.8	34.6	33.8	28.3	2.84	1.87	0.780	---	---	---	1943
1944	---	---	---	14.8	9.25	28.4	23.0	10.4	17.2	3.51	17.5	---	---	1944
1945	---	---	---	54.1	40.5	8.19	6.97	4.21	18.5	13.7	---	---	---	1945
1946	---	---	14.4	44.2	18.3	3.01	3.15	0.394	0.806	1.52	---	---	---	1946
1947	---	---	---	18.0	13.3	32.8	24.9	9.20	4.14	13.4	---	---	---	1947
1948	---	---	---	37.1	80.4	13.1	10.6	14.5	1.38	0.387	0.728	0.512	---	1948
1949	0.486	0.439	0.409	28.0	23.4	8.68	2.06	3.75	0.524	3.52	6.05	1.85	8.42	1949
1950	0.662	0.539	0.601	21.6	143	51.3	40.1	11.0	16.2	27.6	7.87	2.48	28.0	1950
1951	1.38	0.916	1.79	45.9	57.6	10.8	1.10	1.50	4.08	3.81	1.90	1.07	11.0	1951
1952	0.400	0.403	0.488	13.6	4.48	2.54	7.04	1.67	0.381	0.391	0.585	0.486	2.89	1952
1953	0.280	0.356	1.78	9.20	8.48	15.3	4.43	0.751	1.13	1.85	1.49	0.586	3.79	1953
1954	0.357	0.413	0.817	18.8	31.2	27.1	3.43	0.573	0.676	0.835	0.485	0.442	7.06	1954
1955	0.323	0.210	0.196	31.3	20.4	28.8	7.42	0.950	0.727	3.21	1.90	0.983	8.01	1955
1956	0.611	0.603	0.287	30.5	59.7	29.0	24.8	8.74	26.2	3.30	22.8	4.11	17.5	1956
1957	0.638	0.480	6.58	41.7	32.7	26.2	58.1	15.5	26.1	16.4	13.0	2.13	20.2	1957
1958	0.783	0.823	1.40	5.64	2.87	2.10	15.9	2.84	0.402	1.09	3.44	2.42	3.31	1958
1959	0.838	0.413	0.477	36.0	29.7	21.5	5.42	1.61	1.82	5.99	4.73	0.640	9.08	1959
1960	0.362	0.356	0.205	36.8	27.7	11.6	4.77	1.25	0.870	0.380	2.08	0.256	7.33	1960
1961	0.141	0.042	2.29	10.6	7.74	1.11	0.285	0.103	0.872	2.10	1.08	0.396	2.23	1961
1962	0.348	0.348	0.132	18.7	42.5	58.8	28.4	23.5	13.3	3.10	3.78	2.72	16.2	1962
1963	0.489	0.351	4.00	38.4	23.9	29.0	12.2	3.08	0.880	0.777	0.867	0.283	9.51	1963
1964	0.071	0.047	0.127	19.4	26.8	24.1	24.8	4.19	4.22	19.4	8.44	1.37	11.1	1964
1965	0.152	0.087	0.092	43.7	71.6	46.0	26.6	5.51	8.28	23.5	14.1	7.86	20.7	1965
1966	3.88	2.13	5.89	92.8	87.1	48.9	19.6	4.49	8.27	1.75	1.55	1.82	24.1	1966
1967	0.555	0.217	1.39	73.3	78.3	25.2	3.89	0.677	0.080	0.394	0.388	0.716	15.3	1967
1968	0.345	0.080	0.601	18.6	5.53	31.7	51.4	45.7	47.0	18.0	10.7	3.40	19.8	1968
1969	1.16	0.848	1.01	45.9	59.6	20.3	4.25	3.57	2.03	4.26	3.07	1.48	12.3	1969
1970	0.984	0.814	0.548	28.6	83.2	81.2	39.1	2.00	3.26	2.12	7.34	1.90	21.8	1970
1971	0.687	0.424	0.621	35.9	27.7	10.3	3.70	1.24	0.827	2.98	11.2	2.41	8.15	1971
1972	0.873	0.480	1.25	22.9	33.6	10.2	2.03	0.640	0.400	1.09	0.890	0.251	8.22	1972
1973	0.301	0.281	6.88	3.16	3.84	2.48	1.07	2.35	4.88	17.1	6.28	1.85	4.21	1973
1974	0.978	0.647	0.482	37.4	100	64.3	7.50	13.3	14.4	3.89	2.22	1.34	20.7	1974
1975	0.913	0.939	0.856	18.4	64.8	33.3	37.2	3.74	0.787	0.788	1.17	0.585	13.7	1975
1976	0.508	0.274	0.394	27.8	6.94	3.26	2.72	0.288	0.107	0.247	0.322	0.087	3.84	1976
1977	0.055	0.086	0.404	4.18	1.27	1.61	1.58	0.394	0.986	5.05	4.38	3.62	1.97	1977
1978	1.52	0.507	0.743	34.1	46.5	6.11	10.1	5.08	4.44	1.71	1.32	0.802	8.53	1978
1979	0.500	0.382	0.478	31.7	85.9	39.9	3.16	0.786	0.308	0.179	0.569	0.453	13.6	1979
1980	0.386	0.335	0.290	19.4	2.94	0.337	0.097	0.004	0.453	1.25	0.990	0.307	2.21	1980
1981	0.310	0.503	2.71	2.17	1.38	9.26	8.37	1.91	3.43	11.0	6.26	2.68	4.18	1981
1982	0.685	0.552	1.97	30.4	40.2	11.6	9.75	3.92	1.91	18.6	9.76	4.40	11.2	1982
1983	1.22	0.847	25.6	45.4	26.5	18.3	15.3	0.973	1.70	2.67	2.95	1.85	12.0	1983
1984	0.587	0.486	1.73	25.5	7.88	18.3	8.36	1.09	3.03	3.39	3.39	0.788	6.09	1984
1985	0.329	0.195	2.65	26.7	22.0	24.-	32.5	24.4	38.0	23.0	7.82	1.94	17.0	1985
1986	1.02	0.854	8.30	74.6	82.4	29.1	5.34	0.977	0.479	1.54	1.38	0.775	17.3	1986
MEAN	0.841	0.444	2.32	26.6	31.1	18.9	12.2	4.78	5.05	5.42	4.43	1.50	10.3	MEAN

LOCATION - LAT 49 11 53 N DRAINAGE AREA 5 200 km²
LONG 97 03 15 W NATURAL FLOW

ROSEAU RIVER NEAR DOMINION CITY - STATION NO 05OD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	56.1 ON APR 25 24.5 ON APR 30	0 E ON FEB 1 *	193 000	1914
1916	---	---	---	---	1916
1917	---	---	---	---	1917
1918	---	30.38 ON APR 29	0.071 ON SEP 22	104 000	1918
1919	---	10.8 ON JUN 1 72.2 ON JUL 23	0 B ON JAN 28 0.2278 ON FEB 26	74 500 207 000	1919
1920	---	---	---	---	1920
1921	---	51.28 ON APR 18	0.142 ON AUG 27	187 000	1921
1922	---	58.4 ON APR 18	0.2278 ON JAN 1	127 000	1922
1923	---	34.5 ON MAY 30	0.1138 ON FEB 9	184 000	1923
1924	---	81.0 ON MAY 4 55.2 ON APR 27	0.2558 ON MAR 19 0 B ON JAN 20	255 000 181 000	1924
1925	---	---	---	---	1925
1926	---	80.3 ON JUN 21	0.1708 ON JAN 15	424 000	1926
1927	---	44.2 ON JUL 8	0.2418 ON MAR 14	334 000	1927
1928	---	142 ON MAY 10	---	---	1928
1929	---	49.0 ON JUL 7 28.5 ON APR 12	---	---	1929
1930	---	---	---	---	1930
1931	---	40.8 ON MAY 21	---	---	1931
1932	---	35.7 ON APR 9	---	---	1932
1933	---	54.7 ON APR 15	---	---	1933
1934	---	47.0 ON APR 19	---	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1937	---	30.3 ON MAY 2	0 ON AUG 6	---	1937
1938	---	48.4 ON MAY 2	---	---	1938
1939	---	49.5 ON MAY 29	---	---	1939
1940	---	---	---	---	1940
1941	---	22.2 ON APR 24	---	---	1941
1942	---	50.1 ON OCT 10	---	---	1942
1943	---	69.9 ON APR 4	---	---	1943
1944	---	48.6 ON APR 24 41.3 ON SEP 5	---	---	1944
1945	---	---	---	---	1945
1946	---	59.7 ON MAR 28	---	---	1946
1947	---	48.7 ON APR 7	---	---	1947
1948	---	51.5 ON JUN 30	---	---	1948
1949	---	81.3 ON APR 21 43.5 ON APR 28	0.275 ON OCT 4	203 000	1949
1950	---	230 ON MAY 6 *	0.4818 ON JAN 30	882 000	1950
1951	---	73.9 ON MAY 2	0.340 ON AUG 3	347 000	1951
1952	---	28.88 ON APR 15	0.198 ON SEP 27	85 200	1952
1953	---	33.7 ON JUN 5	0.1988 ON JAN 15	118 000	1953
1954	---	48.6 ON APR 30	0.2558 ON NOV 8	223 000	1954
1955	---	47.0 ON APR 23	0.085 ON MAR 23	253 000	1955
1956	---	87.8 ON APR 25	0.1988 ON MAR 18	855 000	1956
1957	---	93.7 ON JUL 14	0.3688 ON MAR 19	838 000	1957
1958	---	24.1 ON JUL 21	0.198 ON OCT 7	105 000	1958
1959	---	51.88 ON APR 13	0.2838 ON FEB 24	286 000	1959
1960	---	74.8 ON APR 15	0.0748 ON JAN 21	232 000	1960
1961	---	15.98 ON APR 3	0.014 ON SEP 7	70 300	1961
1962	---	77.0 ON MAY 25	0.0518 ON MAR 21	510 000	1962
1963	---	45.2 ON JUN 27	0.0208 ON JAN 18	300 000	1963
1964	40.8 AT 07 00 CST ON JUN 21	40.2 ON JUN 21	0 B ON MAR 9	351 000	1964
1965	90.6 AT 12 00 CST ON MAY 7	90.0 ON MAY 7	0.0178 ON MAR 1	853 000	1965
1966	131 AT 01 00 CST ON MAY 5	130 ON MAY 5	1.07 B ON DEC 31	758 000	1966
1967	124 AT 01 00 CST ON APR 22	121 ON APR 22	0.003 ON SEP 30	481 000	1967
1968	85.5 AT 11 00 CST ON JUL 14	85.7 ON JUL 14	0.0178 ON FEB 25	618 000	1968
1969	75.8 AT 03 30 CST ON MAY 1	75.8 ON APR 30	0.7238 ON APR 1	386 000	1969
1970	110 AT 18 00 CST ON MAY 15	110 ON MAY 15	0.4308 ON MAR 27	887 000	1970
1971	54.7 AT 21 00 CST ON APR 13	54.4 ON APR 16	0.3178 ON FEB 9	287 000	1971
1972	---	47.6 ON MAY 3	0.1988 ON DEC 11	197 000	1972
1973	---	20.4 ON OCT 4	0.2298 ON FEB 13	133 000	1973
1974	145 AT 08 30 CST ON MAY 22 *	145 ON MAY 22	0.4588 ON MAR 19	852 000	1974
1975	75.3 AT 00 00 CST ON MAY 8	75.3 ON MAY 8	0.385 ON SEP 27	432 000	1975
1976	---	42.28 ON APR 7	0 ON SEP 21	112 000	1976
1977	---	11.88 ON APR 12	0.0488 ON JAN 13	82 200	1977
1978	84.3 AT 10 28 CST ON APR 29	84.0 ON APR 28	0.2888 ON MAR 8	300 000	1978
1979	104 AT 14 18 CST ON MAY 13	103 ON MAY 13	0.085 ON OCT 10	434 000	1979
1980	45.0 AT 22 01 CST ON APR 14	40.8 ON APR 15	0 ON JUL 13	89 800	1980
1981	18.8 AT 07 21 CST ON JUL 5	18.5 ON JUL 5	0.0898 ON JAN 17	132 000	1981
1982	50.0 AT 00 15 CST ON MAY 5	50.0 ON MAY 4	0.2578 ON FEB 17	384 000	1982
1983	88.9 AT 00 01 CST ON APR 5	85.5 ON APR 8	0.4358 ON FEB 6	377 000	1983
1984	87.1 AT 21 50 CST ON APR 5	86.18 ON APR 5	0 B ON FEB 6	182 000	1984
1985	84.4 AT 01 23 CST ON APR 5	84.6 ON APR 8	0.1408 ON FEB 10	537 000	1985
1986	101 AT 02 01 CST ON MAY 2	100 ON MAY 2	0.303 ON AUG 27	944 000	1986
			MEAN	324 000	

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEISLE CREEK NEAR ROSEISLE - STATION NO 05OF005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	2.85	0.572	0.241	0.132	0.087	0.150	0.176	---	---	0.496	1965
1966	---	---	1.74	3.08	1.54	0.128	1.32	0.033	0.010	0.011	---	---	0.943	1966
1967	---	---	0.078	4.51	1.04	0.055	0.340	0.002	0	0	---	---	0.744	1967
1968	---	---	0.527	0.382	0.454	0.094	0.319	2.34	0.787	0.201	---	---	0.835	1968
1969	---	---	0	5.09	1.11	1.43	2.83	0.142	0.029	0.054	---	---	1.41	1969
1970	---	---	0	5.87	5.57	0.342	0.055	0.004	0.002	0.012	---	---	1.49	1970
1971	---	---	0	4.23	0.508	0.990	0.422	0.084	0.074	0.815	---	---	0.852	1971
1972	---	---	0.881	2.73	0.885	0.110	0.026	0.019	0.012	0.018	---	---	0.588	1972
1973	---	---	0.576	0.180	0.137	0.484	0.157	0.075	0.014	0.039	---	---	0.205	1973
1974	---	---	0.001	7.81	3.72	0.441	0.029	0.007	0.005	0.008	---	---	1.49	1974
1975	---	---	0.006	1.57	0.833	0.891	0.332	0.014	0.010	0.024	---	---	0.430	1975
1976	---	---	0.075	5.07	0.225	0.081	0.004	0.004	0	0	---	---	0.870	1976
1977	---	---	0.016	0.112	0.753	0.052	0.002	0	0.232	0.128	---	---	0.182	1977
1978	---	---	0.017	3.49	0.877	0.413	0.728	0.089	0.082	0.051	---	---	0.709	1978
1979	---	---	0.020	5.77	4.01	0.805	0.116	0.028	0.012	0.025	---	---	1.44	1979
1980	---	---	0	1.37	0.111	0.009	0.002	0	0.001	0.015	---	---	0.185	1980
1981	---	0.138	0.119	0.081	0.075	0.419	0.110	0.080	0.003	0.020	---	---	0.109	1981
1982	---	---	0.178	1.04	0.189	0.085	0.014	0.001	0	0.014	---	---	0.182	1982
1983	---	---	0.322	2.37	0.155	0.084	0.014	0	0	---	---	---	0.380	1983
1984	---	---	0.185	0.247	0.415	0.225	0.014	0	0	0.002	---	---	0.136	1984
1985	---	---	2.82	1.50	0.148	0.047	0.012	1.15	0.076	0.235	---	---	0.732	1985
1986	---	---	2.90	2.82	2.33	0.184	0.229	0.053	0.012	0.015	---	---	1.07	1986
MEAN	---	0.138	0.471	2.91	1.15	0.333	0.314	0.189	0.088	0.078	---	---	0.885	MEAN

LOCATION - LAT 49 30 10 N DRAINAGE AREA 223 km²
LONG 98 19 40 W NATURAL FLOW

ROSEISLE CREEK NEAR ROSEISLE - STATION NO 05OF005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1965	---	11.0 ON APR 15	0 B ON MAR 1 *	10 500	1965
1966	---	14.3 B ON APR 1	0 B ON MAR 1	20 800	1966
1967	---	20.5 ON APR 20	0 B ON MAR 1	15 800	1967
1968	---	18.4 ON AUG 25	0 B ON MAR 1	13 500	1968
1969	---	29.4 ON APR 12	0 B ON MAR 1	29 900	1969
1970	---	40.5 ON APR 29 *	0 B ON MAR 1	31 500	1970
1971	---	27.1 ON APR 10	0 B ON MAR 1	18 100	1971
1972	---	6.088 ON APR 14	0 B ON MAR 1	12 000	1972
1973	---	1.03 ON JUN 16	0 B ON MAR 1	4 340	1973
1974	40.3 AT 12 05 CST ON APR 21 *	37.7 ON APR 21	0.0018 ON MAR 5	31 400	1974
1975	24.8 AT 13 41 CST ON JUN 28	8.35 ON JUN 28	0.0018 ON MAR 24	8 110	1975
1976	21.7 AT 04 17 CST ON APR 8	15.8 ON APR 8	0 ON JUL 28	14 200	1976
1977	8.41 AT 05 25 CST ON MAY 20	6.40 ON MAY 19	0 B ON MAR 1	3 440	1977
1978	---	10.1 B ON APR 10	0 B ON MAR 1	15 000	1978
1979	37.7 AT 04 58 CST ON APR 21	34.0 ON APR 21	0.005 ON SEP 17	30 400	1979
1980	---	5.618 ON APR 8	0 B ON MAR 1	3 820	1980
1981	---	4.84E ON JUN 24	0.001 ON SEP 15	2 310	1981
1982	5.838 AT 20 31 CST ON APR 12	4.258 ON APR 12	0 B ON MAR 1	3 860	1982
1983	11.7 B AT 22 14 CST ON APR 7	8.938 ON APR 8	0 B ON MAR 1	7 620	1983
1984	---	1.30E ON JUN 2	0 B ON MAR 1	2 870	1984
1985	15.7 AT 18 08 CST ON AUG 17	9.638 ON MAR 25	0 B ON MAR 1	15 500	1985
1986	23.8 AT 04 05 CST ON MAR 29	19.8 ON MAR 29	0 B ON MAR 1	22 800	1986
				14 500	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO 05KL001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	---	---	---	1912
1913	---	---	---	---	---	---	---	---	---	---	---	---	---	1913
1914	---	---	---	---	---	1 300	1 440	1 470	1 830	1 780	770	---	---	1914
					912	925	1 190	1 580	1 330	939	585	340	---	
1915	127	142	185	285	536	715	1 510	1 180	---	---	---	---	---	1915
1916	311	215	153	220	952	1 400	1 910	2 100	2 140	1 350	583	227	827	1916
1917	453	394	243	300	1 030	1 890	2 220	2 330	2 110	1 740	1 010	579	1 080	1917
1918	286	215	226	503	887	889	1 190	1 810	1 240	778	608	309	935	1918
1950	---	---	---	---	---	---	---	1 320	---	---	---	---	---	1950
1951	---	---	---	---	---	---	---	---	---	---	---	---	---	1951
1952	---	---	---	---	1 050	1 320	1 480	1 520	1 340	1 210	518	---	---	1952
1953	---	---	---	---	1 580	1 580	1 580	1 510	1 100	728	---	---	---	1953
1954	---	---	---	---	717	1 150	1 800	1 800	1 410	847	---	---	---	1954
1955	---	---	---	---	638	1 440	1 910	1 880	1 750	1 990	1 430	---	---	1955
1956	---	---	---	---	1 570	1 820	1 740	1 420	915	815	---	---	---	1956
1957	---	---	---	---	1 430	1 790	1 570	1 210	900	844	---	---	---	1957
1958	---	---	---	---	1 010	1 310	1 080	718	808	545	---	---	---	1958
1959	---	---	---	---	1 180	1 080	1 120	1 020	729	593	---	---	---	1959
					809	849	1 240	1 090	788	837	---	---	---	
1960	---	---	---	---	1 010	1 150	1 150	1 010	819	---	---	---	---	1960
1961	---	---	---	---	708	824	973	782	672	---	---	---	---	1961
1962	---	---	---	---	---	1 100	1 050	---	---	---	---	---	---	1962
1964	---	---	---	---	---	---	---	---	---	---	---	---	---	1964
1965	0	0	131	634	1 410	1 750	2 110	1 800	0	0	0	0	---	1965
1966	808	580	558	456	1 380	773	1 440	895	997	818	589	459	879	1966
1967	698	702	812	473	455	532	521	561	799	379	501	812	748	1967
1968	891	885	215	382	482	300	212	208	801	808	824	578	580	1968
1969	945	858	807	527	423	385	477	898	239	336	529	782	423	1969
									409	574	892	828	833	
1970	1 030	1 010	858	389	425	481	548	583	537	302	558	858	828	1970
1971	878	887	884	829	522	482	429	528	591	439	812	793	843	1971
1972	883	908	770	659	529	512	828	1 040	880	701	811	872	729	1972
1973	804	803	882	385	87 8	562	939	705	237	441	550	886	573	1973
1974	1 000	895	1 100	880	818	2 870	1 850	808	957	528	583	988	1 070	1974
1975	1 180	1 180	1 110	611	335	380	765	883	757	485	354	948	710	1975
1976	892	788	899	453	358	139	136	110	116	139	317	1 040	448	1976
1977	982	801	471	250	585	259	283	159	383	488	730	735	503	1977
1978	708	578	438	409	203	158	180	255	380	802	743	838	457	1978
1979	1 180	1 130	639	301	279	803	481	248	173	222	280	713	530	1979
1980	888	911	827	199	227	248	728	589	544	753	727	720	814	1980
1981	528	323	117	127	267	634	785	998	728	481	408	868	521	1981
1982	1 180	886	719	584	288	211	217	285	498	388	438	453	491	1982
1983	584	1 180	1 110	588	309	384	172	374	344	591	480	1 050	802	1983
1984	780	480	894	420	448	487	328	378	227	388	378	880	485	1984
1985	893	480	182	242	345	294	324	387	621	379	830	892	479	1985
1986	895	1 080	825	285	306	273	438	837	554	589	877	731	577	1986
MEAN	738	683	597	427	590	884	995	982	790	670	594	881	647	MEAN

LOCATION - LAT 53 09 50 N
LONG 99 20 56 W

DRAINAGE AREA 384 000 km²
REGULATED SINCE 1964

DATA CONTRIBUTED BY MANITOBA HYDRO

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	1 610 ON AUG 26	---	---	1914
1915	---	1 550 ON AUG 5	---	---	1915
1916	---	2 360 ON SEP 12	127 B ON JAN 1	26 100 000	1916
1917	---	2 480 ON AUG 20	153 B ON MAR 1	34 200 000	1917
1918	---	2 310 ON JUL 18	221 B ON MAR 2	29 500 000	1918
1950	---	1 380 ON AUG 7	208 B ON MAR 7	---	1950
1951	---	---	---	---	1951
1952	---	---	---	---	1952
1953	---	1 790 ON JUL 29	---	---	1953
1954	---	1 880 ON AUG 31	---	---	1954
1955	---	---	---	---	1955
1956	---	---	---	---	1956
1957	---	---	---	---	1957
1958	---	---	---	---	1958
1959	---	---	---	---	1959
1960	---	---	---	---	1960
1961	---	---	---	---	1961
1962	---	---	---	---	1962
1964	---	---	---	---	1964
1965	---	2 110 ON JUL 1	0 ON JAN 1 *	27 700 000	1965
1966	---	1 440 ON JUL 1	379 ON OCT 1	23 800 000	1966
1967	---	864 ON NOV 29	238 ON DEC 24	18 300 000	1967
1968	---	1 050 ON DEC 31	1.56 ON AUG 4	13 400 000	1968
1969	---	1 110 ON JAN 10	10.2 ON JUN 15	20 000 000	1969
1970	---	1 230 ON FEB 3	118 ON APR 26	19 800 000	1970
1971	---	1 200 ON MAR 11	133 ON MAY 23	20 300 000	1971
1972	---	1 190 ON AUG 12	181 ON MAY 21	23 100 000	1972
1973	---	1 330 ON JUN 26	49.8 ON MAY 19	18 100 000	1973
1974	---	3 280 ON JUN 19 *	196 ON DEC 26	33 800 000	1974
1975	---	1 320 ON FEB 14	91.2 ON NOV 15	22 400 000	1975
1976	---	1 410 ON DEC 21	80.7 ON JUL 4	14 100 000	1976
1977	---	1 400 ON JAN 10	53.8 ON OCT 2	15 900 000	1977
1978	---	1 230 ON DEC 8	96.6 ON APR 30	14 400 000	1978
1979	---	1 420 ON JUN 18	76.7 ON SEP 16	16 700 000	1979
1980	---	1 020 ON NOV 15	67.9 ON MAY 31	19 400 000	1980
1981	---	1 410 ON AUG 8	98.4 ON MAY 3	16 400 000	1981
1982	---	1 300 ON JAN 3	56.4 ON OCT 24	15 500 000	1982
1983	---	1 340 ON FEB 9	62.6 ON JUN 12	19 000 000	1983
1984	---	1 420 ON MAR 12	92.3 ON SEP 23	15 400 000	1984
1985	---	1 280 ON JAN 18	87.5 ON JUL 27	15 100 000	1985
1986	---	1 340 ON NOV 20	98.2 ON JUL 1	18 200 000	1986
				20 400 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SASKATCHEWAN RIVER AT THE PAS - STATION NO 05KJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	156	156	184	968	1 510	1 430	1 710	1 650	1 270	708	396	227	867	1913
1914	170	142	127	708	1 280	1 280	1 650	1 140	714	585	476	246	712	1914
1915	127	146	158	696	710	1 270	2 240	2 680	1 850	986	594	198	975	1915
1916	152	121	146	953	1 250	1 740	2 650	2 520	1 970	1 420	845	288	1 170	1916
1917	182	176	175	507	1 930	2 280	2 400	1 600	900	596	540	204	963	1917
1918	124	146	179	1 030	846	927	1 410	1 180	832	589	356	150	850	1918
1919	135	147	126	480	847	842	873	761	864	589	162	88.7	458	1919
1920	82.6	79.4	82.6	130	1 730	1 980	1 740	1 500	771	434	254	186	747	1920
1921	83.0	78.7	98.2	262	1 750	1 690	1 620	1 140	833	580	342	234	729	1921
1922	177	139	132	430	1 260	1 430	1 390	1 080	985	801	394	176	687	1922
1923	123	117	112	345	888	1 330	2 280	1 830	1 240	546	282	156	782	1923
1924	97.4	92.0	113	174	949	977	1 240	942	839	478	214	178	526	1924
1925	136	115	124	696	1 230	1 310	1 580	1 110	1 200	870	462	258	759	1925
1926	177	154	200	551	999	898	981	725	975	1 280	844	225	654	1926
1927	215	185	184	493	1 790	1 820	2 150	1 980	1 510	1 350	758	403	1 070	1927
1928	303	273	261	783	1 460	1 300	2 180	1 880	880	417	213	111	839	1928
1929	72.8	70.8	89.9	303	802	1 220	1 140	529	419	242	117	63.9	424	1929
1930	54.7	53.8	70.2	634	737	984	1 180	813	529	328	243	132	480	1930
1931	112	102	118	480	440	503	1 050	815	844	544	320	---	---	1931
1932	---	---	---	---	1 140	1 500	1 770	1 050	803	507	353	121	---	1932
1933	170	160	150	510	1 420	1 520	1 510	913	686	421	322	243	672	1933
1934	172	202	234	676	1 550	1 420	1 810	1 000	657	469	426	295	730	1934
1935	191	143	213	537	1 050	1 080	1 380	1 250	630	331	185	133	595	1935
1936	102	90.7	91.3	436	1 600	1 260	876	529	487	260	185	87.4	500	1936
1937	80.1	57.1	63.8	506	637	624	933	711	388	304	---	---	---	1937
1938	---	---	---	---	850	1 020	1 380	898	538	425	---	---	---	1938
1939	---	---	---	---	888	705	1 420	818	462	302	---	---	---	1939
1940	---	---	---	---	1 250	948	889	603	415	426	189	115	---	1940
1941	102	75.9	75.6	620	388	380	540	470	413	274	267	83.9	307	1941
1942	56.4	61.5	88.1	425	539	1 150	1 630	1 510	942	610	318	179	627	1942
1943	158	134	147	1 030	1 370	1 010	1 420	1 080	631	348	270	122	847	1943
1944	110	104	103	601	495	880	1 470	1 080	779	437	214	137	537	1944
1945	98.8	118	133	512	823	1 210	1 400	876	582	527	288	192	567	1945
1946	173	169	192	1 000	717	975	1 380	834	589	429	245	120	588	1946
1947	163	154	173	818	1 480	1 330	1 320	852	678	842	489	283	698	1947
1948	284	203	280	333	2 250	2 850	2 230	1 450	927	437	197	103	955	1948
1949	88.7	76.2	102	711	802	790	703	713	430	289	322	120	405	1949
1950	95.1	121	120	444	954	843	1 390	1 080	606	370	214	150	534	1950
1951	175	155	158	759	1 510	1 590	1 750	1 610	1 290	1 110	717	395	940	1951
1952	212	229	240	1 190	1 840	1 360	1 840	1 490	915	531	381	153	868	1952
1953	136	128	159	513	1 220	1 630	2 080	1 490	1 020	517	320	148	783	1953
1954	134	133	187	302	1 270	1 880	2 070	1 700	1 980	1 680	1 150	814	1 110	1954
1955	389	346	273	1 180	1 820	1 880	1 620	1 200	804	426	184	145	836	1955
1956	150	176	185	620	1 980	1 760	1 430	1 070	886	471	307	154	749	1956
1957	131	87.0	124	575	1 490	1 370	812	581	515	377	383	206	585	1957
1958	153	158	196	1 080	1 210	1 200	1 190	904	494	359	224	123	808	1958
1959	153	141	159	957	885	949	1 430	915	491	475	306	282	577	1959
1960	207	178	174	1 040	975	1 020	1 080	786	592	271	187	146	537	1960
1961	135	129	137	526	834	1 120	798	610	388	229	155	88.8	412	1961
1962	125	153	179	395	1 130	851	897	752	421	124	104	110	439	1962
1963	79.4	78.2	87.1	652	817	776	1 110	843	590	412	281	141	500	1963
1964	163	218	212	518	798	905	1 450	899	477	538	389	158	545	1964
1965	208	207	225	856	1 390	1 530	2 300	1 840	983	864	575	319	933	1965
1966	341	225	354	858	1 180	1 230	1 500	1 140	548	338	214	139	673	1966
1967	230	395	404	304	1 010	1 100	1 040	588	440	334	214	153	527	1967
1968	425	213	274	580	513	458	544	547	488	355	360	258	418	1968
1969	413	473	429	832	1 100	688	1 280	954	584	532	327	281	668	1969
1970	424	522	390	441	1 170	775	1 150	800	501	408	410	333	621	1970
1971	483	577	534	806	1 190	888	880	817	436	370	436	337	648	1971
1972	459	403	486	673	1 550	1 080	1 330	1 050	563	536	352	253	730	1972
1973	472	526	511	848	1 000	1 180	978	582	586	489	306	389	632	1973
1974	454	537	600	988	2 330	1 880	1 390	946	837	712	546	430	970	1974
1975	487	627	806	621	1 240	1 180	1 050	595	650	456	443	335	672	1975
1976	413	541	577	786	513	388	483	498	493	473	284	282	479	1976
1977	468	520	345	534	477	594	402	385	438	355	250	288	417	1977
1978	309	338	341	498	1 080	812	799	543	577	679	388	332	568	1978
1979	451	513	584	543	1 120	538	388	344	313	295	245	574	1979	
1980	284	497	500	711	587	880	788	438	372	487	398	222	498	1980
1981	401	464	418	751	558	872	742	1 080	691	512	424	246	597	1981
1982	378	481	433	588	886	818	689	545	384	412	327	288	501	1982
1983	417	499	464	535	1 010	871	771	496	397	436	415	276	533	1983
1984	322	375	352	838	867	889	521	341	357	391	295	266	451	1984
1985	280	311	363	932	1 350	872	588	427	431	402	309	305	549	1985
1986	440	398	472	825	815	799	793	991	534	655	443	425	638	1986
MEAN	222	233	240	643	1 110	1 150	1 310	1 010	708	527	357	221	655	MEAN

LOCATION - LAT 53 50 30 N
LONG 101 11 10 W

DRAINAGE AREA, 347 000 km²
REGULATED

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	1 810 ON JUL 28	156 E ON JAN 1	27 300 000	1913
1914	---	1 690 ON JUL 15	127 E ON MAR 1	22 500 000	1914
1915	---	2 830 ON AUG 9	127 B ON JAN 1	30 800 000	1915
1916	---	2 920 ON JUL 19	115 B ON FEB 16	37 100 000	1916
1917	---	2 570 ON JUL 2	132 B ON DEC 31	30 400 000	1917
1918	---	1 520 ON JUL 10	117 B ON JAN 24	20 500 000	1918
1919	---	1 000 ON APR 23	86.48 ON DEC 30	14 400 000	1919
1920	---	2 310 ON JUN 3	78.08 ON FEB 13	23 800 000	1920
1921	---	1 840 ON MAY 5	68.08 ON FEB 3	23 000 000	1921
1922	---	1 500 ON JUN 30	125 B ON FEB 28	21 800 000	1922
1923	---	2 370 ON JUL 16	109 B ON MAR 29	24 700 000	1923
1924	---	1 440 ON MAY 9	81.88 ON JAN 22	16 800 000	1924
1925	---	1 880 ON JUL 15	105 B ON JAN 31	23 900 000	1925
1926	---	1 460 ON APR 27	151 B ON FEB 7	20 600 000	1926
1927	---	2 190 ON JUL 12	149 B ON FEB 26	33 800 000	1927
1928	---	2 320 ON JUL 18	80.78 ON DEC 31	26 500 000	1928
1929	---	1 570 ON JUN 27	58.38 ON DEC 31	13 400 000	1929
1930	---	1 240 ON JUL 11	50.78 ON FEB 3 *	15 200 000	1930
1931	---	1 210 ON APR 21	---	---	1931
1932	---	---	---	---	1932
1933	---	1 740 ON MAY 3	135 B ON MAR 23	21 200 000	1933
1934	---	1 930B ON APR 30	167 B ON JAN 12	23 000 000	1934
1935	---	1 580 ON APR 28	112 B ON JAN 29	18 800 000	1935
1936	---	2 220 ON MAY 2	86.08 ON DEC 31	15 800 000	1936
1937	---	1 400B ON APR 29	---	---	1937
1938	---	---	---	---	1938
1939	---	1 620 ON APR 25	---	---	1939
1940	---	---	---	---	1940
1941	---	1 350 ON APR 20	82.08 ON DEC 21	9 870 000	1941
1942	---	1 770 ON JUL 28	54.78 ON JAN 11	19 800 000	1942
1943	---	2 250 ON APR 23	94.98 ON DEC 15	20 400 000	1943
1944	---	1 570 ON JUL 6	98.08 ON MAR 20	17 000 000	1944
1945	---	1 480 ON JUL 12	83.58 ON JAN 11	17 900 000	1945
1946	---	1 460 ON JUL 9	104 B ON DEC 18	17 900 000	1946
1947	---	1 740 ON MAY 5	137 B ON MAR 7	22 000 000	1947
1948	---	3 000 ON JUN 11 *	93.48 ON DEC 29	30 200 000	1948
1949	---	1 220 ON APR 20	70.28 ON JAN 29	12 800 000	1949
1950	---	1 770B ON MAY 6	86.48 ON JAN 15	16 800 000	1950
1951	---	1 850 ON JUL 30	144 B ON FEB 28	29 700 000	1951
1952	---	2 100B ON APR 21	133 B ON DEC 2	27 500 000	1952
1953	---	2 310 ON JUL 4	120 B ON JAN 31	24 700 000	1953
1954	---	2 200 ON JUL 2	118 B ON FEB 12	35 100 000	1954
1955	---	1 940 ON JUN 9	94.08 ON NOV 20	26 300 000	1955
1956	---	2 320 ON MAY 17	127 B ON DEC 22	23 700 000	1956
1957	---	1 640B ON MAY 1	92.98 ON FEB 8	17 800 000	1957
1958	---	1 570 ON APR 28	108 B ON DEC 11	19 200 000	1958
1959	---	1 670B ON APR 22	134 B ON FEB 2	18 200 000	1959
1960	---	1 970B ON APR 29	142 B ON DEC 26	17 000 000	1960
1961	---	1 370 ON JUN 22	81.88 ON DEC 8	13 000 000	1961
1962	---	590B ON APR 30	62.9 ON NOV 6	13 800 000	1962
1963	1 410 AT 13:00 CST ON JUL 21	1 400 ON JUL 19	74.88 ON JAN 27	15 800 000	1963
1964	---	1 670 ON JUL 3	124 B ON JAN 3	17 200 000	1964
1965	2 430 AT 08 15 CST ON JUL 23 *	2 370 ON JUL 23	195 B ON JAN 22	29 400 000	1965
1966	1 830 AT 23 15 CST ON JUL 20	1 780 ON JUL 20	109 B ON DEC 30	21 200 000	1966
1967	---	1 630B ON MAY 13	102 B ON DEC 15	15 800 000	1967
1968	---	900B ON APR 29	130 B ON NOV 28	13 200 000	1968
1969	1 840 AT 17 30 CST ON JUL 23	1 630 ON JUL 23	210 B ON JAN 1	21 000 000	1969
1970	---	1 730B ON MAY 9	228 B ON NOV 25	19 800 000	1970
1971	---	1 580B ON APR 26	300 ON OCT 10	20 400 000	1971
1972	---	2 010 ON MAY 2	195 B ON DEC 3	23 100 000	1972
1973	---	1 340 ON JUN 20	205 B ON NOV 16	18 900 000	1973
1974	---	2 410 ON MAY 2	391 B ON DEC 19	30 800 000	1974
1975	---	1 330B ON MAY 5	251 B ON NOV 27	21 200 000	1975
1976	---	991B ON APR 16	220 B ON NOV 28	15 100 000	1976
1977	---	923B ON APR 22	164 B ON NOV 24	13 100 000	1977
1978	---	1 540 ON MAY 2	211 B ON JAN 5	17 600 000	1978
1979	2 080 AT 18:00 CST ON MAY 8	2 000 ON MAY 8	198 B ON DEC 13	18 100 000	1979
1980	1 210 AT 00:01 CST ON APR 22	1 140 ON APR 26	161 B ON DEC 4	15 700 000	1980
1981	1 230 AT 23:45 CST ON AUG 12	1 230 ON AUG 12	190 B ON DEC 21	18 800 000	1981
1982	1 510B AT 10 17 CST ON APR 29	1 470B ON APR 29	204 B ON NOV 24	15 800 000	1982
1983	1 570 AT 17 35 CST ON MAY 2	1 550E ON MAY 3	246 B ON DEC 15	15 800 000	1983
1984	1 170B AT 06 12 CST ON APR 17	1 180B ON APR 17	248 B ON NOV 21	14 300 000	1984
1985	---	1 720B ON APR 22	227 B ON NOV 29	17 300 000	1985
1986	---	1 400 ON APR 28	295 B ON JAN 1	20 100 000	1985
				20 700 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCISSOR CREEK NEAR MCAULEY - STATION NO OSME009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.002	0.018	0.004	0.001	---	---	---	---	---	---	0.005	1977
1978	---	---	0.026	0.228	0.008	0.004	---	---	---	---	---	---	0.066	1978
1979	---	---	0	2.03	0.308	0.021	---	---	---	---	---	---	0.583	1979
1980	---	---	0	0.103	0.001	0	---	---	---	---	---	---	0.026	1980
1981	---	0.017	0.037	0.002	0.001	0.002	---	---	---	---	---	---	0.011	1981
1982	---	---	0	0.730	0	0	---	---	---	---	---	---	0.180	1982
1983	---	---	0	1.26	0.001	0	---	---	---	---	---	---	0.311	1983
1984	---	---	0.002	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	0.813	0.795	0.002	0	---	---	---	---	---	---	0.403	1985
1986	---	---	0.984	0.059	0.022	0.005	---	---	---	---	---	---	0.271	1986
MEAN	---	0.017	0.186	0.523	0.035	0.003	---	---	---	---	---	---	0.186	MEAN

LOCATION - LAT 50 16 16 N DRAINAGE AREA, 187 km²
LONG 101 23 04 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.063 AND 0 m³/s OCCURRED IN FEBRUARY

SCISSOR CREEK NEAR MCAULEY - STATION NO OSME009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	0.138 AT 18:20 CST ON APR 8	0.076 ON APR 8	0B ON MAR 1 *	67.8	1977
1978	---	0.5788 ON APR 3	0B ON MAR 1	692	1978
1979	13.9 AT 18:00 CST ON APR 24 *	12.7 A ON APR 23 *	0B ON MAR 1	6 140	1979
1980	---	0.3798 ON APR 8	0B ON MAR 1	271	1980
1981	0.153 AT 17:32 CST ON APR 30	0.0638 ON MAR 19	0 ON APR 7	114	1981
1982	5.95 AT 00:05 CST ON APR 14	5.10 ON APR 14	0B ON MAR 1	1 880	1982
1983	10.5 AT 22:11 CST ON APR 20	9.04 ON APR 21	0B ON MAR 1	3 270	1983
1984	0.022 AT 16:54 CST ON MAR 29	0.012 ON MAR 26	0B ON MAR 1	4 41	1984
1985	8.76 B AT 08:51 CST ON MAR 29	6.22 B ON MAR 28	0B ON MAR 1	4 250	1985
1986	---	5.92 B ON MAR 26	0B ON MAR 1	2 880	1986
				1 980	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCLATER RIVER NEAR CAMPERVILLE - STATION NO OSLG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.005	6.97	1.56	1.13	0.505	0.297	0.285	2.07	---	---	1.89	1969
1970	---	---	0.037	7.92	8.12	1.89	3.41	2.02	0.071	1.48	---	---	3.09	1970
1971	---	---	0.025	10.5	1.25	2.17	1.48	0.268	0.008	0.540	---	---	2.01	1971
1972	---	---	0.019	8.22	4.44	0.283	0.132	0.031	0.001	0.002	---	---	1.75	1972
1973	---	---	0.018	0.319	0.445	8.96	0.819	0.123	1.05	0.822	---	---	1.56	1973
1974	---	---	0.018	14.4	13.6	2.96	0.033	0.004	0.155	0.185	---	---	3.89	1974
1975	---	---	0	4.09	4.72	2.91	0.128	0.001	0.653	1.15	---	---	1.70	1975
1976	---	---	0	10.7	1.70	13.2	0.842	0.022	0.001	0	---	---	3.23	1976
1977	---	---	0	0.352	0.369	0.029	0.133	0.231	1.81	1.01	---	---	0.488	1977
MEAN	---	---	0.014	7.16	4.02	3.70	0.809	0.333	0.446	0.819	---	---	2.15	MEAN

LOCATION - LAT 51 58 50 N DRAINAGE AREA, 383 km²
LONG 100 13 50 W NATURAL FLOW

SCLATER RIVER NEAR CAMPERVILLE - STATION NO OSLG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	35.7 ON APR 14	0 ON SEP 5 *	33 700	1969
1970	---	22.3 ON APR 26	0.028 ON SEP 14	85 500	1970
1971	---	34.8 ON APR 13	0 ON SEP 3	42 500	1971
1972	---	37.7 ON APR 21	0 B ON MAR 1	37 000	1972
1973	46.4 AT 08:00 CST ON JUN 22	44.2 ON JUN 22	0 B ON MAR 1	33 000	1973
1974	98.0 AT 04:30 CST ON APR 21 *	85.0 ON APR 21 *	0.001 ON AUG 7	82 300	1974
1975	18.6 AT 11:14 CST ON APR 28	14.6 ON APR 28	0 B ON MAR 1	38 000	1975
1976	75.0 AT 21:00 CST ON JUN 15	65.7 ON JUN 15	0 B ON MAR 1	68 400	1976
1977	6.71 AT 11:17 CST ON SEP 28	6.40 ON SEP 28	0 B ON MAR 1	10 300	1977
				45 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCOTT CREEK NEAR LAURIER - STATION NO 05LJ026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.013	0.668	1.07	0.202	0.115	0.059	0.050	0.557	---	---	0.488	1959
1960	---	---	0	1.46	1.73	0.330	0.127	0.138	0.075	0.111	---	---	0.881	1960
1961	---	---	0.058	0.255	0.409	0.105	0.084	0.001	0.062	0.116	---	---	0.207	1961
1962	---	---	0.001	0.293	0.487	0.168	0.044	0.050	0.041	0.048	0.105	---	0.237	1962
1963	---	---	0.028	1.49	0.694	0.918	0.124	0.071	0.189	0.106	---	---	0.775	1963
1964	---	---	0	0.694	0.598	0.105	0.079	0.055	0.064	0.068	---	---	0.348	1964
1965	---	---	0.012	1.03	1.29	0.576	0.212	0.113	0.978	0.236	---	---	0.725	1965
1966	---	---	0.283	0.932	1.38	0.349	0.144	0.239	0.095	0.145	---	---	0.738	1966
1967	---	---	0.029	0.312	1.89	0.270	0.108	0.085	0.051	0.144	---	---	0.655	1967
1968	---	---	0.025	0.405	0.541	0.274	0.347	0.326	0.248	0.191	---	---	0.311	1968
1969	---	---	0.057	1.08	0.486	1.31	0.796	0.121	0.194	0.211	---	---	0.727	1969
1970	---	---	0.184	1.31	3.15	0.887	0.326	0.114	0.179	0.208	---	---	1.34	1970
1971	---	---	0	0.857	0.471	2.16	0.408	0.160	0.143	0.488	---	---	0.862	1971
1972	---	---	0.058	1.09	1.14	0.257	0.117	0.091	0.085	0.087	---	---	0.636	1972
1973	---	---	0.049	0.212	0.321	0.812	0.110	0.167	0.348	0.371	---	---	0.297	1973
1974	---	---	0	1.45	2.17	0.887	0.212	0.127	0.144	0.136	---	---	1.08	1974
1975	---	---	0	0.743	1.24	1.00	0.201	0.878	2.74	0.809	---	---	0.744	1975
1976	---	---	0.011	2.90	0.542	0.477	0.178	0.091	0.079	0.075	---	---	0.872	1976
1977	---	---	0.010	0.276	0.435	0.256	---	---	---	---	---	---	0.244	1977
1978	---	---	0.026	1.04	0.499	0.280	---	---	---	---	---	---	0.460	1978
MEAN	---	---	0.042	0.825	1.03	0.552	0.208	0.180	0.319	0.233	0.105	---	0.838	MEAN

LOCATION - LAT 50 50 50 N DRAINAGE AREA, 89.4 km²
LONG 99 32 45 W NATURAL FLOW

REMARKS - 58.9 m³/s OCCURRED SEP 19 1975. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	7.36 AT 00:30 CST ON MAY 3	4.25 ON MAY 8	0 B ON MAR 1 *	5 150	1959
1960	7.48 AT 17:00 CST ON MAY 26	4.84 ON APR 20	0 B ON MAR 1	9 290	1960
1961	---	1.48 ON MAY	0.0088 ON MAR 27	2 190	1961
1962	---	4.47A ON MAY 30	0 B ON MAR 1	2 500	1962
1963	10.4 B AT 05:15 CST ON APR 16	5.52 ON JUN 10	0 B ON MAR 1	8 180	1963
1964	10.4 B AT 22:35 CST ON APR 24	3.11B ON APR 24	0 B ON MAR 1	3 670	1964
1965	---	12.0 B ON APR 29	0.005B ON MAR 1	7 840	1965
1966	10.5 AT 21:00 CST ON MAY 4	4.70 ON MAY 5	0.014B ON MAR 1	7 790	1966
1967	5.07 AT 00:30 CST ON MAY 15	3.57 ON MAY 15	0.028B ON MAR 1	6 910	1967
1968	---	1.27 ON MAY 8	0 B ON MAR 1	3 280	1968
1969	22.2 AT 03:52 CST ON JUN 27	11.0 ON JUN 27	0.057B ON MAR 1	7 860	1969
1970	---	11.3 ON MAY 7	0.184B ON MAR 1	14 100	1970
1971	26.3 AT 14:18 CST ON JUN 5 *	21.5 ON JUN 5 *	0 B ON MAR 1	9 080	1971
1972	8.67B AT 00:00 CST ON APR 26	5.58B ON APR 25	0 B ON MAR 1	6 700	1972
1973	6.26 AT 16:05 CST ON JUN 20	3.96 ON JUN 20	0.028B ON MAR 1	3 130	1973
1974	12.0 AT 23:55 CST ON MAY 11	6.57 ON APR 27	0 B ON MAR 1	11 300	1974
1975	11.6 AT 05:47 CST ON MAY 8	7.99 ON JUN 10	0 B ON MAR 1	7 850	1975
1976	11.3 AT 17:20 CST ON APR 19	7.14 ON APR 5	0 B ON MAR 1	10 300	1976
1977	---	1.42 ON MAY 20	0 B ON MAR 1	2 560	1977
1978	---	3.34B ON APR 24	0.020B ON MAR 1	4 850	1978
				6 710	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEAL RIVER BELOW GREAT ISLAND - STATION NO 06GD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	142	113	78.3	85.0	425	783	708	510	340	232	176	142	313	1955
1956	113	102	96.3	142	481	783	552	331	218	147	113	85.0	285	1956
1957	85.1	82.3	59.5	142	467	783	807	728	595	425	275	184	385	1957
1958	142	127	113	108	204	498	473	425	419	368	289	204	282	1958
1959	150	123	96.3	99.1	580	920	793	487	411	326	255	198	371	1959
1960	170	113	85.0	198	934	1 610	1 270	714	382	297	241	190	518	1960
1961	156	122	87.8	113	416	481	814	487	382	303	238	184	300	1961
1962	142	122	102	130	851	1 300	779	402	283	227	170	142	372	1962
1963	113	99.1	87.8	93.4	269	711	748	569	379	246	176	130	303	1963
1964	110	99.1	93.4	85.0	99.1	453	750	736	809	425	241	181	324	1964
1965	150	113	79.3	76.5	227	462	416	348	283	203	177	153	223	1965
1966	137	120	88.5	91.1	125	1 120	921	557	331	248	182	139	339	1966
1967	125	108	83.3	103	154	1 200	1 080	773	384	266	198	153	388	1967
1968	122	106	93.7	80.6	153	957	816	674	532	484	348	261	385	1968
1969	193	152	122	122	198	419	378	392	847	754	443	345	384	1969
1970	246	187	144	142	388	580	618	284	257	276	283	219	284	1970
1971	180	149	120	113	283	490	713	726	802	788	577	391	447	1971
1972	236	173	124	114	721	667	789	776	750	584	364	268	485	1972
1973	200	162	127	109	583	423	332	233	210	181	148	118	234	1973
1974	94.8	78.1	66.7	84.4	385	414	351	479	520	373	261	200	273	1974
1975	154	102	78.2	90.9	459	574	712	585	420	306	225	171	325	1975
1976	139	120	108	112	381	620	568	337	339	454	394	308	325	1976
1977	235	177	127	220	808	791	724	758	580	432	320	227	452	1977
1978	158	116	88.5	79.6	310	805	728	759	992	804	524	325	478	1978
1979	207	150	112	96.5	277	772	526	355	267	221	181	148	277	1979
1980	122	96.6	75.3	109	---	---	438	535	1 080	828	526	318	---	1980
1981	195	139	111	104	553	664	536	385	329	282	207	153	306	1981
1982	115	96.3	81.8	75.1	410	633	615	364	335	388	221	177	294	1982
1983	150	129	110	84.8	146	1 400	1 280	805	921	986	647	352	585	1983
1984	253	186	143	298	1 080	749	505	361	330	298	214	180	384	1984
1985	156	127	100	79.2	228	834	525	344	248	280	202	173	277	1985
1986	153	123	97.2	82.7	218	---	1 080	893	436	325	227	185	---	1986
MEAN	157	125	100	114	405	784	685	528	476	397	283	206	351	MEAN

LOCATION - LAT 58 53 30 N DRAINAGE AREA 48 100 km²
LONG 96 16 31 W NATURAL FLOW

SEAL RIVER BELOW GREAT ISLAND - STATION NO 06GD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---				
1956	---	783E ON JUN 1	78.3E ON MAR 1	9 890 000	1955
1957	---	783E ON JUN 1	85.0E ON DEC 1	8 380 000	1956
1958	---	807E ON JUL 1	59.5E ON MAR 1 *	12 200 000	1957
1959	---	498E ON JUN 1	108 E ON APR 1	8 880 000	1958
		920E ON JUN 1	96.3E ON MAR 1	11 700 000	1959
1960	---				
1961	---	1 810E ON JUN 1	85.0E ON MAR 1	16 400 000	1960
1962	---	814E ON JUL 1	87.8E ON MAR 1	9 450 000	1961
1963	---	1 300E ON JUN 1	102 E ON MAR 1	11 700 000	1962
1964	---	748E ON JUL 1	87.8E ON MAR 1	9 550 000	1963
		750E ON JUL 1	85.0E ON APR 1	10 300 000	1964
1965	---				
1966	---	462E ON JUN 1	76.5E ON APR 1	7 030 000	1965
1967	---	1 310B ON JUN 10	87.8B ON MAR 31	10 700 000	1966
1968	---	1 350E ON JUN 7	88.7B ON MAR 21	12 200 000	1967
1969	---	957E ON JUN 1	90.6E ON APR 1	12 200 000	1968
		934 ON SEP 21	122 E ON MAR 1	11 500 000	1969
1970	---				
1971	---	800E ON JUN 1	142 E ON APR 1	8 850 000	1970
1972	---	892 ON SEP 30	109 B ON MAR 31	14 100 000	1971
1973	1 000 AT 23:00 CST ON MAY 23	1 040 ON MAY 27	109 B ON APR 11	14 700 000	1972
1974	---	917 ON MAY 24	103 B ON APR 11	7 400 000	1973
		738B ON MAY 25	83.4B ON APR 7	8 610 000	1974
1975	776 AT 18:00 CST ON JUL 8				
1976	714 AT 18:00 CST ON JUN 20	785 ON JUL 8	74.5B ON MAR 28	10 300 000	1975
1977	---	711 ON JUN 20	105 B ON MAR 21	10 300 000	1976
1978	---	9178 ON MAY 13	115 B ON MAR 28	14 300 000	1977
1979	---	1 040 ON SEP 7	78.3B ON APR 7	15 000 000	1978
		980B ON JUN 2	94.8B ON APR 10	8 720 000	1979
1980	---				
1981	---	1 180 ON SEP 10	84.3B ON APR 9	---	1980
1982	---	1 0108 ON MAY 25	104 B ON APR 1	9 850 000	1981
1983	1 850 AT 13:15 CST ON JUN 28 *	759 ON JUN 28	74.1B ON APR 27	9 270 000	1982
1984	---	1 640 ON JUN 28 *	90.2B ON APR 26	18 500 000	1983
		1 480B ON MAY 23	127 B ON APR 4	12 100 000	1984
1985	---				
1986	---	922A ON JUN 13	71.7B ON MAY 8	8 730 000	1985
		---	77.1B ON MAY 8	---	1986
				11 100 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	5.61	2.64	1.74	0.013	0.048	1.84	1.13	0.283	---	1915
1916	---	---	---	9.89	5.19	2.19	1.57	0.842	0.278	0.889	---	---	2.93	1916
1917	---	---	---	4.15	3.10	0.808	0.416	0.058	0.041	0.142	---	---	1.24	1917
1918	---	---	---	1.05	0.728	2.53	0.582	0.471	0.206	0.848	0.485	---	0.883	1918
1919	---	---	---	3.55	1.88	0.778	12.3	0.448	2.31	---	---	---	---	1919
1920	---	---	---	---	4.57	5.07	0.121	0	---	---	---	---	---	1920
1921	---	---	---	4.13	3.93	2.18	---	---	---	---	---	---	---	1921
1922	---	---	---	4.70	8.86	0.412	---	---	---	---	---	---	---	1922
1923	---	---	---	---	3.41	1.34	0.881	0.979	---	---	---	---	---	1923
1924	---	---	---	---	5.94	1.74	0.715	1.17	0.202	1.58	---	---	---	1974
1925	---	---	---	10.2	4.15	19.2	3.06	0.407	0.909	5.34	---	---	5.13	1925
1926	---	---	---	3.12	1.47	5.49	2.70	0.530	0.549	5.41	---	---	2.75	1926
1927	---	---	---	14.8	20.7	3.03	0.976	0.307	0.564	---	---	---	---	1927
MEAN	---	---	---	5.16	5.37	3.72	2.28	0.475	0.587	2.26	0.808	0.283	2.78	MEAN

LOCATION - LAT. 49 40 00 N DRAINAGE AREA 723 km²
LONG 96 39 00 W NATURAL FLOW

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---	0 ON AUG 4 *	---	1915
1916	---	22.4 ON APR 22	0 ON AUG 26	54 700	1916
1917	---	13.5 ON APR 18	0 ON JUL 31	23 000	1917
1918	---	5.44 ON JUN 5	0.113 ON AUG 7	16 300	1918
1919	---	56.1 ON JUL 5 *	0 ON SEP 2	---	1919
1920	---	---	0 ON JUL 12	---	1920
1921	---	7.90 ON APR 18	0.311 ON JUN 28	---	1921
1922	---	---	0 ON JUN 13	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	44.5 ON JUN 10	0.113 ON AUG 5	113 000	1925
1926	---	17.5 ON JUN 25	0.396 ON AUG 15	50 800	1926
1927	---	56.1 ON MAY 11	---	---	1927
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		51 500	MEAN

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1926	---	---	---	---	---	---	---	---	---	5.41	---	---	---	1926
1927	---	---	---	---	20.7	3.03	0.976	0.307	0.564	1.59	---	---	4.55	1927
1928	---	---	---	---	1.83	7.18	7.05	1.26	0.869	0.878	---	---	3.17	1928
1929	---	---	---	---	1.38	2.79	0.535	0.112	0.206	0.574	---	---	0.928	1929
1930	---	---	---	---	6.56	0.954	0.744	0.196	0.224	0.583	---	---	1.56	1930
1931	---	---	---	3.79	2.86	0.672	0.206	0.095	0.231	0.419	0.597	---	0.717	1931
1932	---	---	---	---	1.92	0.309	0.331	0.079	0.155	0.634	---	---	0.576	1932
1933	---	---	---	---	2.83	1.90	0.172	0.087	0.143	0.213	---	---	0.886	1933
1934	---	---	---	---	0.820	0.554	0.251	0.070	0.139	0.357	---	---	0.365	1934
1935	---	---	---	---	1.73	1.14	0.609	0.204	0.227	0.314	---	---	0.703	1935
1936	---	---	---	---	1.38	0.372	0.064	0.015	0.150	---	---	---	---	1936
MEAN	---	---	---	3.79	4.18	1.89	1.09	0.241	0.291	1.10	0.597	---	1.50	MEAN

LOCATION - LAT. 49 40 35 N DRAINAGE AREA 727 km²
LONG 96 41 00 W NATURAL FLOW

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1926	---	---	---	---	1926
1927	---	56.1 ON MAY 11 *	0.215 ON AUG 15	72 400	1927
1928	---	16.7 ON JUN 23	0.736 ON AUG 20	50 400	1928
1929	---	7.25 ON MAY 31	0.028 ON AUG 10	14 700	1929
1930	---	17.3 ON MAY 15	0.068 ON AUG 18	24 800	1930
1931	---	5.38 ON MAY 13	0.054 ON AUG 19	11 400	1931
1932	---	2.97 ON MAY 4	0.014 ON AUG 20	9 150	1932
1933	---	10.8 ON MAY 29	0.006 ON SEP 6	14 100	1933
1934	---	1.17 ON MAY 1	0.003 ON AUG 4 *	5 820	1934
1935	---	2.94 ON MAY 14	0.076 ON AUG 15	11 200	1935
1936	---	2.18 ON MAY 2	0.003 ON AUG 2	---	1936
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		23 800	MEAN

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO 05OE011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	1.37	50.4	6.97	0.044	0.028	0.008	0.011	0.042	---	---	7.25	1967
1968	---	---	0.219	2.90	4.12	1.52	1.01	2.33	1.31	0.219	---	---	1.70	1968
1969	---	---	0	21.4	5.13	0.881	0.557	0.190	0.036	0.090	---	---	3.49	1969
1970	---	---	0	23.6	18.6	7.00	0.371	0.036	0.230	0.090	---	---	6.20	1970
1971	---	---	0	14.6	2.67	0.492	0.150	0.046	0.116	0.733	---	---	2.32	1971
1972	---	---	1.88	13.2	1.88	0.077	0.031	0.075	0.037	0.185	---	---	2.12	1972
1980	---	---	0.004	8.12	0.085	0.046	0.029	0.014	0.284	0.427	---	---	0.858	1980
1981	---	---	0.572	0.321	0.251	0.393	0.561	0.408	0.274	0.484	---	---	0.406	1981
1982	---	---	0.883	10.0	0.441	3.69	3.01	0.553	0.185	0.623	---	---	2.38	1982
1983	---	---	7.53	15.2	2.36	1.28	1.37	0.051	0.071	0.128	---	---	3.47	1983
1984	---	---	0.996	0.992	0.288	8.03	0.383	0.084	0.074	0.243	---	---	1.12	1984
1985	---	---	5.14	1.80	1.70	0.123	0.243	1.23	0.093	0.335	---	---	1.34	1985
1986	---	---	8.72	13.4	18.0	0.385	0.421	0.141	0.121	0.469	---	---	5.21	1986
MEAN	---	---	2.07	13.4	4.81	1.69	0.629	0.396	0.217	0.311	---	---	2.91	MEAN

LOCATION - LAT 49 41 40 N
LONG 96 59 19 W REGULATED

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO 05OE011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	132 ON APR 21 *	0 B ON MAR 1 *	154 000	1967
1968	---	16.1 ON MAY 15	0 B ON MAR 1	36 000	1968
1969	---	76.5 ON APR 10	0 B ON MAR 1	73 700	1969
1970	---	72.6 ON APR 15	0 B ON MAR 1	131 000	1970
1971	---	55.2 B ON APR 9	0 B ON MAR 1	48 000	1971
1972	---	32.0 B ON APR 17	0 B ON MAR 1	44 800	1972
1980	43.5 B AT 12 00 CST ON APR 7	42.8 B ON APR 7	0 B ON MAR 1	18 200	1980
1981	7.53 AT 16 31 CST ON JUN 29	5.61 ON JUN 30	0.008 ON JUL 26	8 580	1981
1982	33.6 AT 22 31 CST ON APR 13	29.8 B ON APR 13	0 B ON MAR 1	50 300	1982
1983	---	38.7 B ON APR 4	0 B ON MAR 1	73 800	1983
1984	20.5 AT 11 54 CST ON JUN 13	19.3 ON JUN 13	0 B ON MAR 1	23 800	1984
1985	36.6 AT 23 11 CST ON MAR 24	29.5 B ON MAR 24	0 B ON MAR 1	28 400	1985
1986	72.4 AT 11 13 CST ON MAY 1 *	66.1 ON MAY 1	0.008 ON SEP 1	110 000	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		61 800	MEAN

SEINE RIVER DIVERSION NEAR ST ADOLPHE - STATION NO 05OE013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	3.99	0.943	0.397	0.804	0.189	0.252	1.27	2.13	---	---	1.28	1973
1974	---	---	---	56.3	48.5	4.17	---	---	---	---	---	---	---	1974
1975	---	---	0	3.34	1.51	2.02	4.28	0.027	0.024	0.088	---	---	1.40	1975
1976	---	---	0.001	8.04	0.932	3.76	0.248	0.022	0.035	0.001	---	---	1.80	1976
1977	---	---	0.105	1.08	0.189	0.089	0.178	0.039	0.872	0.244	---	---	0.323	1977
1978	---	---	0.228	28.2	1.71	0.057	0.358	0.004	0.007	0.007	---	---	3.75	1978
1979	---	---	0	22.2	1.82	2.93	0.032	0.020	0.047	0.054	---	---	3.32	1979
MEAN	---	---	0.721	17.2	7.87	1.89	0.881	0.081	0.343	0.417	---	---	1.94	MEAN

LOCATION - LAT 49 41 50 N
LONG 97 05 30 W REGULATED

SEINE RIVER DIVERSION NEAR ST ADOLPHE - STATION NO 05OE013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	18.3 B ON MAR 14	0B ON MAR 1 *	25 700	1973
1974	---	178 E ON APR 22 *	0B ON APR 1	---	1974
1975	40.2 AT 06 46 CST ON JUL 1	37.7 ON JUL 1	0B ON MAR 1	29 800	1975
1976	---	37.1 ON JUN 13	0B ON MAR 1	33 900	1976
1977	5.78 AT 09 30 CST ON APR 10	4.19 ON APR 10	0B ON MAR 1	6 820	1977
1978	92.3 B AT 23 30 CST ON APR 10 *	84.4 B ON APR 10	0B ON MAR 1	79 400	1978
1979	---	118 R ON APR 20	0B ON MAR 1	70 400	1979
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1 1986		41 200	MEAN

SEINE RIVER DIVERSION NEAR STE ANNE - STATION NO 05OH008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	1.27	0.864	0.458	0.496	0.072	0.089	0.216	1.15	---	---	0.579	1973
1974	---	---	0	20.6	15.4	3.06	0.003	0.003	0.003	0.003	---	---	4.97	1974
1975	---	---	0	1.03	2.23	1.45	2.23	0	0	0	---	---	0.867	1975
1976	---	---	0	2.98	0.896	0.505	0.115	0	0	0	---	---	0.530	1976
1977	---	---	0.005	0.087	0.001	0	0	0	0	0	---	---	0.013	1977
1978	---	---	0.004	8.89	1.61	0.089	0.017	0.001	0.002	0	---	---	1.30	1978
1979	---	---	0	7.70	7.29	2.50	0	0	0	0	---	---	2.17	1979
1980	---	---	0	1.81	0	0	0	0	0	0	---	---	0.221	1980
1981	---	---	0.004	0.002	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.095	4.80	0.118	2.25	1.71	0.166	0	0.168	---	---	1.15	1982
1983	---	---	0.678	8.06	1.85	0.875	1.05	0	0	0	---	---	1.55	1983
1984	---	---	0.203	0.280	0.023	5.32	0.150	0	0	0	---	---	0.731	1984
1985	---	---	0.895	0.706	1.34	0.111	0.087	0.018	0.001	0.191	---	---	0.431	1985
1986	---	---	1.63	8.78	10.3	0.217	0.163	0	0	0.216	---	---	2.86	1986
MEAN	---	---	0.349	4.76	3.02	1.20	0.398	0.021	0.018	0.123	---	---	1.23	MEAN

LOCATION - LAT 49 39 10 N
LONG 96 39 10 W REGULATED

SEINE RIVER DIVERSION NEAR STE ANNE - STATION NO 05OH008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	3.88 ON OCT 15	0B ON MAR 1 *	12 200	1973
1974	---	81.7 A ON APR 22 *	0B ON MAR 1	105 000	1974
1975	17.8 AT 03:05 CST ON JUL 2	17.3 ON JUL 2	0B ON MAR 1	18 300	1975
1976	4.87 AT 12:52 CST ON APR 23	4.66 ON APR 22	0B ON MAR 1	11 200	1976
1977	0.425 AT 21:00 CST ON APR 12	0.252 ON APR 12	0B ON MAR 1	287	1977
1978	---	22.1 B ON APR 10	0B ON MAR 1	27 800	1978
1979	---	34.0 ON APR 19	0B ON MAR 1	46 000	1979
1980	9.89 B AT 16:00 CST ON APR 7	8.84 B ON APR 7	0B ON MAR 1	4 680	1980
1981	0.030 AT 06:38 CST ON MAR 26	0.025 ON MAR 26	0 ON MAR 1	16 9	1981
1982	19.2 AT 23:38 CST ON APR 16	16.7 B ON APR 16	0B ON MAR 1	24 300	1982
1983	---	26.1 B ON APR 2	0B ON MAR 1	32 800	1983
1984	16.9 AT 15:59 CST ON JUN 12	16.9 ON JUN 13	0B ON MAR 1	15 500	1984
1985	5.05 B AT 20:54 CST ON MAR 24	4.57 B ON MAR 25	0B ON MAR 1	8 120	1985
1986	28.6 AT 18:14 CST ON MAY 3 *	27.6 ON MAY 3	0B ON MAR 1	56 200	1986
				25 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO 05OH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	6.73	1.02	0.229	0.205	0.807	0.383	---	---	---	1942
1943	---	---	---	9.12	3.38	7.18	2.25	0.281	0.255	0.235	---	---	---	1943
1944	---	---	---	2.12	0.910	13.0	2.27	10.7	20.4	1.97	5.89	---	---	1944
1945	---	---	---	15.5	5.98	1.43	2.32	0.400	4.77	2.27	---	---	---	1945
1946	---	---	11.3	7.85	2.01	0.621	0.782	0.101	0.484	1.49	---	---	---	1946
1947	---	---	0	11.5	5.60	4.98	1.60	3.63	0.850	2.54	---	---	---	1947
1948	---	---	0.132	14.0	7.09	0.827	1.71	3.87	0.417	0.238	0.491	0.272	---	1948
1949	0.112	0.064	0.129	8.33	3.95	1.18	0.258	0.390	0.125	1.31	1.89	0.405	1.50	1949
1950	0.253	0.197	0.139	14.2	33.8	4.82	4.29	0.585	3.01	5.08	1.83	0.477	5.75	1950
1951	0.306	0.119	0.427	10.2	6.49	1.19	0.229	0.212	0.425	0.586	0.356	0.206	1.73	1951
1952	0.057	0.060	0.092	1.82	0.628	0.554	0.580	0.138	0.083	0.205	0.187	0.146	0.375	1952
1953	0.088	0.051	0.377	1.84	1.32	3.88	1.26	0.171	0.537	0.322	0.380	0.185	0.872	1953
1954	0.049	0.095	0.119	3.42	5.61	11.6	1.62	0.301	0.784	1.39	0.948	0.498	2.19	1954
1955	0.212	0.119	0.109	20.8	3.99	4.32	0.871	0.089	0.057	0.274	0.181	0.107	2.55	1955
1956	0.033	0.019	0.100	8.88	4.32	1.45	1.74	0.957	3.95	0.774	4.87	0.484	2.27	1956
1957	0.195	0.083	4.11	10.7	4.68	5.02	2.85	0.201	0.180	0.375	0.393	0.131	2.39	1957
1958	0.076	0.041	0.257	0.809	0.682	0.683	2.15	0.157	0.058	0.382	0.440	0.168	0.492	1958
1959	0.103	0.024	0.062	11.6	7.46	19.6	1.35	2.81	4.00	16.0	2.30	0.425	5.47	1959
1960	0.217	0.184	0.085	25.0	4.14	2.03	0.380	0.188	0.119	0.224	0.535	0.220	2.83	1960
1961	0.233	0.032	0.906	3.52	2.42	0.472	0.135	0.012	0.009	0.274	0.217	0.088	0.693	1961
1962	0.055	0.020	0.106	2.64	3.35	0.947	0.978	0.880	0.481	0.359	0.845	0.452	0.929	1962
1963	0.083	0	0.990	4.31	4.00	5.45	2.09	0.758	0.085	0.145	0.148	0.083	1.51	1963
1964	0.107	0.111	0.053	3.44	3.52	2.85	0.751	0.198	0.318	1.79	0.621	0.190	1.14	1964
1965	0.098	0.047	0.088	4.82	3.56	3.58	2.54	0.254	0.738	1.59	0.947	0.537	1.55	1965
1966	0.385	0.284	0.211	10.2	3.45	4.43	5.45	0.439	1.26	0.832	1.09	0.292	2.36	1966
1967	0.129	0.088	0.070	12.6	2.85	0.833	0.340	0.112	0.012	0.255	0.399	0.109	1.48	1967
1968	0.053	0.048	0.100	1.80	1.03	1.07	1.39	2.51	1.84	1.13	0.909	0.239	0.995	1968
1969	0.133	0.207	0.238	8.06	0.929	0.808	1.22	0.551	0.235	0.501	0.410	0.243	1.12	1969
1970	0.186	0.089	0.093	7.76	3.13	2.38	0.688	0.157	0.286	0.400	0.888	0.184	1.35	1970
1971	0.028	0.068	0.252	8.44	0.815	0.789	0.373	0.227	0.120	0.598	0.721	0.354	1.06	1971
1972	0.106	0.054	0.333	4.58	1.11	0.507	0.112	0.210	0.214	0.497	0.528	0.072	0.888	1972
1973	0.052	0.048	1.34	1.20	1.08	1.48	1.08	0.751	1.04	3.07	1.34	0.348	1.07	1973
1974	0.100	0.127	0.183	16.2	9.89	1.80	0.358	0.208	0.178	0.289	0.159	0.105	2.47	1974
1975	0.110	0.142	0.177	1.37	1.50	2.87	1.50	0.125	0.112	0.210	0.173	0.107	0.899	1975
1976	0.088	0.076	0.104	2.59	0.542	2.02	0.386	0.030	0.009	0.083	0.089	0.004	0.494	1976
1977	0	0	0.056	1.33	0.441	0.887	0.483	0.111	1.55	1.18	0.743	0.527	0.590	1977
1978	0.212	0.160	0.181	11.7	2.97	0.716	0.379	0.074	0.104	0.154	0.138	0.056	1.39	1978
1979	0.027	0.019	0.025	10.3	1.98	2.44	0.183	0.115	0.228	0.134	0.180	0.083	1.29	1979
1980	0.068	0.078	0.089	2.76	0.582	0.126	0.038	0.048	0.174	0.574	0.288	0.073	0.404	1980
1981	0.018	0.114	0.537	0.787	0.650	0.616	0.332	0.227	0.283	1.78	0.787	0.487	0.550	1981
1982	0.090	0.035	0.128	2.22	2.30	1.82	1.20	0.972	0.123	1.82	1.04	0.535	1.01	1982
1983	0.088	0.133	0.814	5.34	0.578	0.516	0.506	0.224	0.129	0.228	0.212	0.085	0.734	1983
1984	0.026	0.016	0.181	1.11	0.852	1.27	0.389	0.084	0.005	0.288	0.271	0.158	0.382	1984
1985	0.059	0.027	1.34	1.82	0.555	0.895	0.495	1.12	0.570	1.19	0.807	0.189	0.744	1985
1986	0.118	0.222	1.96	4.08	---	---	---	---	---	---	---	---	---	1986
MEAN	0.114	0.085	0.883	7.12	3.70	2.88	1.17	0.808	1.17	1.25	0.894	0.243	1.49	MEAN

LOCATION - LAT 49 46 15 N
LONG 96 56 10 W

DRAINAGE AREA 1 100 km²
REGULATED SINCE 1981

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO 05QH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	33.7 ON APR 9	---	---	1944
		49.6 ON SEP 7	0.8 ON APR 1 *		
1945	---	---	---	---	1945
1946	---	50.4 ON MAR 28	---	---	1946
1947	---	39.1 ON MAR 25	---	---	1947
1948	---	28.1 ON APR 17	0.8 ON MAR 1	---	1948
1949	---	39.1 ON APR 21	---	---	1949
		32.0 ON APR 12	---	---	
1950	---	---	0.8 ON JAN 27	47 300	1950
1951	---	80.4 ON MAY 7	---	---	1951
1952	---	23.9 B ON APR 6	0.1028 ON MAR 7	181 000	1952
1953	---	4.088 ON APR 8	0.8 ON DEC 30	54 600	1953
1954	---	6.48 ON JUN 29	0.0288 ON JAN 1	11 800	1954
		25.2 ON JUN 18	0.0288 ON FEB 12	27 500	
1955	---	---	0.0288 ON JAN 1	69 200	1955
1956	---	73.3 ON APR 8	---	---	1956
1957	---	36.5 B ON APR 22	0 ON SEP 16	80 500	1957
1958	---	33.1 ON APR 26	0.8 ON JAN 19	71 700	1958
1959	82.7 AT 08 00 CST ON JUN 15 *	8.34 ON JUL 6	0.0288 ON JAN 31	75 400	1959
		77.8 ON JUN 15	0 ON SEP 22	15 500	
1960	---	---	0.0088 ON FEB 19	173 000	1960
1961	---	84.1 ON APR 15 *	---	---	1961
1962	---	6.038 ON MAR 28	0.023 ON SEP 22	89 500	1962
1963	---	17.7 B ON APR 22	0.8 ON FEB 1	21 800	1963
1964	---	12.2 B ON APR 9	0.8 ON JAN 17	29 300	1964
		13.6 B ON APR 19	0.8 ON JAN 11	47 600	
1965	---	---	0.0118 ON MAR 24	36 200	1965
1966	---	25.0 B ON APR 14	---	---	1966
1967	38.2 AT 03 30 CST ON APR 22	23.4 A ON JUL 4	0.0208 ON MAR 14	49 000	1967
1968	9.49 ON AUG 25	34.8 ON APR 22	0.1058 ON DEC 30	74 400	1968
1969	---	9.29 ON AUG 25	0.8 ON MAR 22	46 700	1969
		34.8 ON APR 12	0.0178 ON JAN 8	31 500	
1970	---	---	0.0178 ON FEB 11	35 400	1970
1971	---	27.8 B ON APR 18	---	---	1971
1972	---	28.6 B ON APR 10	0.0348 ON FEB 15	42 800	1972
1973	---	18.3 B ON APR 15	0.0148 ON FEB 9	33 300	1973
1974	64.0 B AT 09 00 CST ON APR 18	7.36 ON OCT 14	0.0088 ON JAN 26	21 800	1974
		60.9 ON APR 19	0.0458 ON FEB 1	33 800	
1975	14.6 AT 15 48 CST ON JUN 23	---	0.0578 ON DEC 11	77 800	1975
1976	---	14.1 ON JUN 23	---	---	1976
1977	6.51 AT 06 46 CST ON SEP 27	15.6 B ON APR 8	0.048 ON SEP 26	22 000	1977
1978	28.9 B AT 04 51 CST ON APR 11	6.48 ON SEP 27	0 ON SEP 5	15 600	1978
1979	58.3 B AT 01 40 CST ON APR 21	28.5 B ON APR 11	0 B ON JAN 1	18 600	1979
		56.4 B ON APR 20	0.022 ON SEP 11	43 800	
1980	11.8 B AT 04 55 CST ON APR 9	---	0.0128 ON MAR 13	40 800	1980
1981	2.50 AT 17 00 CST ON OCT 17	11.4 B ON APR 9	---	---	1981
1982	10.2 B AT 06 50 CST ON APR 16	2.43 ON OCT 17	0 ON JUL 16	12 800	1982
1983	20.4 B AT 04 58 CST ON APR 7	9.838 ON APR 15	0 B ON JAN 17	17 300	1983
1984	5.05 AT 15 12 CST ON JUN 18	19.6 B ON APR 7	0.0088 ON FEB 11	31 900	1984
		4.46 ON JUN 18	0.0068 ON MAR 25	23 100	
1985	7.79 AT 18 58 CST ON AUG 24	---	0 A ON SEP 23	12 100	1985
1986	26.8 B AT 21 12 CST ON MAR 31	7.47 ON AUG 24	---	---	1986
		26.0 B ON APR 1	0.0018 ON FEB 19	23 500	
		---	---	---	
				47 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER NEAR STE ANNE - STATION NO 05QH007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	5.87	4.58	2.13	0.399	0.088	0.155	1.51	---	---	1.83	1984
1985	---	---	0	8.20	4.92	2.43	2.09	0.180	0.753	2.22	---	---	2.58	1985
1986	---	---	0.015	10.8	12.4	4.23	9.88	0.349	1.80	0.540	---	---	4.98	1986
1987	---	---	1.58	29.6	6.87	0.634	0.255	0.129	0.020	0.118	---	---	4.84	1987
1988	---	---	0.867	2.09	2.87	1.91	1.10	0.928	1.31	0.882	---	---	1.50	1988
1989	---	---	0.270	7.74	2.89	1.65	1.05	0.527	0.243	0.850	---	---	1.86	1989
1990	---	---	0.110	7.57	13.2	5.79	0.821	0.098	0.102	0.320	---	---	3.46	1990
1991	---	---	0.186	4.28	2.49	0.852	0.418	0.215	0.107	0.624	---	---	1.15	1991
1992	---	---	0.316	8.07	2.74	0.474	0.092	0.237	0.247	0.430	---	---	1.31	1992
1993	---	---	1.57	1.54	1.36	1.60	0.853	0.427	0.973	3.61	---	---	1.49	1993
1994	---	---	0.184	19.5	18.2	3.69	0.020	0.063	0.143	0.249	---	---	4.97	1994
1995	---	---	0.142	1.26	3.33	2.83	2.75	0.189	0.084	1.31	---	---	1.49	1995
1996	---	---	0.217	3.45	1.09	1.03	0.418	0.007	0.007	0.035	---	---	0.773	1996
1997	---	---	0.224	0.615	0.451	0.541	0.217	0.070	0.709	0.929	---	---	0.488	1997
1998	---	---	0.155	9.78	3.30	0.801	0.286	0.058	0.054	0.082	---	---	1.76	1998
1999	---	---	0.095	5.95	4.84	2.09	0.151	0.138	0.180	0.152	---	---	1.86	1999
2000	---	---	0.070	2.32	6.488	0.131	0.076	0.038	0.182	0.279	---	---	0.441	2000
2001	---	---	0.244	0.578	0.559	0.633	0.250	0.134	0.331	1.25	---	---	0.497	2001
2002	---	---	0.187	5.21	2.20	3.12	2.51	1.00	0.185	1.86	---	---	2.00	2002
2003	---	---	1.50	7.86	2.08	1.35	1.37	0.200	0.102	0.195	---	---	1.82	2003
2004	---	---	0.536	0.888	0.876	5.24	0.616	0.066	0.004	0.078	---	---	1.03	2004
2005	---	---	1.22	1.15	1.81	0.833	0.377	0.440	0.432	1.09	---	---	0.920	2005
2006	---	---	2.15	8.77	10.2	0.402	0.388	0.134	0.185	0.475	---	---	2.83	2006
MEAN	---	---	0.513	5.57	4.41	1.93	1.14	0.247	0.353	0.817	---	---	1.99	MEAN

LOCATION - LAT 49 38 10 N, LONG 96 37 00 W DRAINAGE AREA 599 km^2, NATURAL FLOW

SEINE RIVER NEAR STE ANNE - STATION NO 05OH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	25 7 B ON APR 18	0 B ON MAR 1 *	38 700	1964
1965	---	27 8 ON APR 15	0 B ON MAR 1	54 800	1965
1966	---	44 7 ON JUL 4	0 B ON MAR 1	105 000	1966
1967	---	98 3 ON APR 22 *	0 B ON MAR 1	102 000	1967
1968	7 57 AT 12 00 CST ON MAY 20	7 53 ON MAY 19	0 B ON MAR 1	31 800	1968
1969	---	20 8 ON APR 12	0 102 ON SEP 4	39 500	1969
1970	23 5 AT 11 20 CST ON JUN 1	23 0 ON JUN 1	0 017 ON SEP 24	73 200	1970
1971	---	8 138 ON APR 9	0 031 ON SEP 26	24 300	1971
1972	---	19 7 B ON APR 16	0 ON AUG 4	27 800	1972
1973	---	8 52 ON OCT 15	0 ON AUG 31	31 800	1973
1974	80 0 AT 02 40 CST ON APR 22 *	58 9 ON APR 22	0 003E ON JUL 22	105 000	1974
1975	16 9 AT 03 25 CST ON JUL 2	16 5 ON JUL 2	0 012 ON SEP 17	31 400	1975
1976	---	5 898 ON APR 7	0 ON AUG 8	16 400	1976
1977	3 008 AT 08 40 CST ON MAR 31	2 35 ON SEP 28	0 0088 ON MAR 1	9 810	1977
1978	24 2 B AT 10 04 CST ON APR 12	21 2 B ON APR 12	0 015 ON SEP 11	37 300	1978
1979	34 1 B AT 09 23 CST ON APR 19	29 1 B ON APR 19	0 0808 ON MAR 18	35 100	1979
1980	10 4 B AT 11 15 CST ON APR 7	9 188 ON APR 7	0 ON JUL 31	9 320	1980
1981	2 00 AT 02 45 CST ON OCT 15	1 93 ON OCT 15	0 0198 ON MAR 5	10 500	1981
1982	22 8 AT 16 30 CST ON APR 16	19 6 B ON APR 16	0 0448 ON MAR 1	42 300	1982
1983	---	27 0 B ON APR 2	0 073 ON SEP 19	38 500	1983
1984	15 5 AT 12 18 CST ON JUN 12	15 3 ON JUN 12	0 0038 ON MAR 1	21 700	1984
1985	4 408 AT 23 37 CST ON MAR 24	4 018 ON MAR 25	0 119 ON AUG 2	19 500	1985
1986	24 8 AT 10 52 CST ON MAR 31	23 7 ON MAY 3	0 034E ON SEP 4	59 900	1986
				42 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER SOUTH OF PRAIRIE GROVE - STATION NO 05OH008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	---	---	---	0 470	0 401	0 172	0 172	0 264	---	---	---	1986
MEAN	---	---	---	---	---	0 470	0 401	0 172	0 172	0 264	---	---	---	MEAN

LOCATION - LAT 49 46 15 N
LONG 96 57 27 W
REGULATED SINCE 1961

SEINE RIVER SOUTH OF PRAIRIE GROVE - STATION NO 05OH008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	---	---	0 036 ON OCT 11 *	---	1986
				---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHANNON CREEK NEAR MORDEN - STATION NO 05OF021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	6 88	4 72	0 488	0 188	0 023	0 027	0 022	---	---	1 53	1970
1971	---	---	0	5 86	0 429	0 320	0 071	0 012	0 017	0 136	---	---	0 853	1971
1972	---	---	1 15	1 83	0 551	0 088	0 002	0 008	0	0	---	---	0 463	1972
1973	---	---	0 272	0 014	0 005	0	0 003	0	0	0 001	---	---	0 037	1973
1974	---	---	0	9 26	5 14	0 780	0 083	0 001	0 001	0 004	---	---	2 02	1974
1975	---	---	0	0 839	0 388	0 387	0 074	0	0	0	---	---	0 320	1975
1976	---	---	0	3 74	0 214	0 084	0 002	0	0	0	---	---	0 493	1976
1977	---	---	0	0 002	0 186	0 078	0	0	0 320	0 022	---	---	0 073	1977
1978	---	---	0 004	2 10	0 521	0 382	0 088	0 010	0 088	0	---	---	0 391	1978
1979	---	---	0	5 85	2 85	0 928	0 223	0	0	0	---	---	1 32	1979
1980	---	---	0	0 325	0 001	0	0 013	0	0	0	---	---	0 042	1980
1981	---	0 186	0 089	0 009	0 010	0 008	0	0	0	0	---	---	0 012	1981
1982	---	---	0 186	0 471	0 003	0 080	0	0	0	0 047	---	---	0 085	1982
1983	---	---	0 385	1 07	0 156	0 078	0 041	0	0	0	---	---	0 215	1983
1984	---	---	0 123	0 089	0 116	0 001	0	0	0	0	---	---	0 041	1984
1985	---	---	1 08	0 332	0 042	0 048	0 022	1 15	0 2 1	0 138	---	---	0 378	1985
1986	---	---	1 18	1 34	2 86	0 205	0 076	0 009	0	0	---	---	0 887	1986
MEAN	---	0 186	0 281	2 62	1 12	0 231	0 048	0 071	0 039	0 022	---	---	0 522	MEAN

LOCATION - LAT 49 18 10 N
LONG 97 58 40 W
DRAINAGE AREA 281 km^2
NATURAL FLOW

REMARKS - WATER LEVELS OBTAINED NEAR KRONSGART IN 1922, 24, 26-30 1981 MAX AND MIN DAILY DISCHARGE OF 1 38 AND 0 OCCURRED IN FEB

SHANNON CREEK NEAR MORDEN - STATION NO 05OF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	42 2 AT 11 35 CST ON APR 26	28 1 ON APR 26	08 ON MAR 1 *	32 300	1970
1971	85 1 B AT 08 53 CST ON APR 10 *	48 7 B ON APR 10	08 ON MAR 1	18 000	1971
1972	---	9 34 B ON MAR 18	08 ON MAR 1	9 810	1972
1973	---	1 02 B ON MAR 12	08 ON MAR 1	787	1973
1974	---	72 2 ON MAY 21 *	08 ON MAR 1	42 800	1974
1975	4 11 AT 19 54 CST ON APR 29	3 60 B ON APR 14	08 ON MAR 1	4 850	1975
1976	18 5 AT 20 19 CST ON APR 5	13 1 B ON APR 4	08 ON MAR 1	10 400	1976
1977	3 34 AT 08 26 CST ON SEP 26	3 00 ON SEP 26	08 ON MAR 1	1 540	1977
1978	---	9 88 B ON APR 8	08 ON MAR 1	8 270	1978
1979	---	56 4 B ON APR 20	08 ON MAR 1	27 800	1979
1980	---	1 20 B ON APR 6	08 ON MAR 1	880	1980
1981	---	0 1398 ON MAR 18	0 ON APR 12	258	1981
1982	---	2 93 B ON MAR 31	08 ON MAR 1	2 010	1982
1983	5 81 AT 12 13 CST ON APR 5	4 81 ON APR 5	08 ON MAR 1	4 550	1983
1984	---	1 14 B ON MAR 27	08 ON MAR 1	877	1984
1985	10 4 AT 03 00 CST ON AUG 18	9 39 ON AUG 18	08 ON MAR 1	8 000	1985
1986	15 4 AT 10 15 CST ON MAY 12	11 7 ON MAY 12	08 ON MAR 1	14 500	1986
				11 000	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHANNON CREEK NEAR MORRIS - STATION NO 05OF014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0 094	11 2	0 713	0 129	0 063	0	0	0	---	---	1 58	1960
1961	---	---	1 47	0 889	0 020	0	0 002	0	0	0	---	---	0 297	1961
1962	---	---	0	5 76	2 08	0 955	0 082	0 032	0	0	---	---	1 22	1962
1963	---	---	0 292	0 335	0 001	2 91	0 087	0 004	0 001	0	---	---	0 447	1963
1964	---	---	0	2 37	0 128	0 153	0 039	0 083	0 231	0 032	---	---	0 374	1964
1965	---	---	0	10 8	1 24	0 253	0 054	0	0	0	---	---	1 52	1965
1966	---	---	4 57	3 94	0 319	0 036	4 01	0	0	0	---	---	1 81	1966
1967	---	---	0	14 1	1 67	0 125	0 027	0	0	0	---	---	1 98	1967
1968	---	---	1 36	0 478	0 404	0 074	0 199	3 70	1 54	0 357	---	---	1 03	1968
1969	---	---	0	10 4	0 832	0 524	1 56	0 080	0 035	0 047	---	---	1 66	1969
1970	---	---	0	15 6	8 70	1 24	0 448	0 115	0 031	0 009	---	---	3 35	1970
1971	---	---	0	12 2	0 413	0 341	0 080	0	0	0 097	---	---	1 81	1971
1972	---	---	2 09	4 67	0 529	0 119	0 409	0 215	0 088	0 034	---	---	1 01	1972
1973	---	---	0 608	0 075	0 008	0 006	0 010	0 039	0 003	0 010	---	---	0 096	1973
1974	---	---	0	21 3	11 3	0 865	0 143	0 001	0 018	0	---	---	4 17	1974
1975	---	---	0	1 88	0 870	0 405	0 353	0	0	0	---	---	0 385	1975
1976	---	---	0	8 56	0 231	0 094	0	0	0	0	---	---	1 09	1976
1977	---	---	0	0 154	0 066	0 010	0 038	0	0 225	0 240	---	---	0 080	1977
1978	---	---	0 009	5 84	0 509	0 103	0 022	0	0 027	0 009	---	---	0 800	1978
1979	---	---	0	---	---	---	0 244	0 019	0	0	---	---	---	1979
1980	---	---	0	0 977	0 006	0	0	0	0	0	---	---	0 120	1980
1981	---	---	0 341	0 056	0 185	0 025	0 007	0 085	0	0	---	---	0 088	1981
1982	---	---	0 228	2 70	0 005	0 028	0	0	0	0 001	---	---	0 363	1982
1983	---	---	0 839	5 54	0 057	0 008	0 004	0	0	0	---	---	0 805	1983
1984	---	---	0 187	0 207	0 058	0 128	0 004	0	0	0	---	---	0 072	1984
1985	---	---	5 52	0 672	0 117	0 003	0 150	1 92	0 337	0 232	---	---	1 13	1985
1986	---	---	5 51	3 74	8 30	0 124	0 041	0 008	0	0	---	---	2 23	1986
MEAN	---	---	0 850	5 58	1 52	0 333	0 298	0 234	0 098	0 040	---	---	1 12	MEAN

LOCATION - LAT 49 21 17 N
LONG 97 25 18 W

DRAINAGE AREA 626 km^2
NATURAL FLOW

SHANNON CREEK NEAR MORRIS - STATION NO 05DF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	...	...	...	...	
1961	...	45.3 ON APR 7	0.8 ON MAR 1 *	31 800	1960
1962	...	8.248 ON MAR 25	0.8 ON MAR 1	6 290	1961
1963	...	42.8 ON APR 21	0 ON MAR 1	25 800	1962
1964	...	21.3 ON JUN 5	0.8 ON MAR 1	9 450	1963
		11.0 B ON APR 11	0.8 ON MAR 1	7 930	1964
1965	...				
1966	...	47.6 B ON APR 13	0.8 ON MAR 1	32 100	1965
1967	...	47.3 B ON APR 1	0.8 ON MAR 1	34 000	1966
1968	...	91.7 B ON APR 21	0.8 ON MAR 1	41 500	1967
1969	...	24.4 ON AUG 27	0.8 ON MAR 1	21 800	1968
		54.1 B ON APR 12	0.8 ON MAR 1	35 100	1969
1970	...				
1971	...	45.9 ON APR 30	0.8 ON MAR 1	70 800	1970
1972	...	116 ON APR 11	0.8 ON MAR 1	34 000	1971
1973	...	15.2 B ON APR 15	0.8 ON MAR 1	21 400	1972
1974	...	2.088 ON MAR 21	0.8 ON MAR 1	2 030	1973
		126 ON APR 18 *	0.8 ON MAR 1	88 200	1974
1975	...				
1976	...	6.77 ON APR 28	0.8 ON MAR 1	8 150	1975
1977	2.13 AT 23 58 CST ON SEP 28	58.9 B ON APR 6	0.8 ON MAR 1	23 100	1976
1978	...	1.95 ON SEP 29	0.8 ON MAR 1	1 890	1977
1979	...	22.7 B ON APR 9	0.8 ON MAR 1	16 900	1978
1980	...	...	0.8 ON MAR 1	...	1979
1981	...				
1982	3.87 AT 12 35 CST ON MAY 25	5.178 ON APR 7	0.8 ON MAR 1	2 550	1980
1983	...	2.41 ON MAY 25	0.8 ON MAR 1	1 810	1981
1984	...	11.3 B ON APR 13	0.8 ON MAR 1	7 890	1982
		18.5 ON APR 6	0.8 ON MAR 1	17 000	1983
1985	...	1.838 ON MAR 29	0.8 ON MAR 1	1 530	1984
1986	50.4 AT 04 51 CST ON MAY 13 *	28.2 B ON MAR 19	0.8 ON MAR 1	23 800	1985
		40.2 ON MAY 13	0.8 ON MAR 1	47 000	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		23 800	MEAN

SHANNON CREEK TRIBUTARY NEAR MYRTLE - STATION NO 05DF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	...	...	0.028	3.14	0.033	0.036	0.004	0	0	0	...	...	0.386	1960
1961	...	...	0.752	0.083	0	0	0	0	0	0	...	...	0.103	1961
1962	...	...	0	1.42	0.881	0.352	0	0	0	0	...	...	0.303	1962
1963	...	...	0.080	0.017	0	1.12	0	0	0	0	...	...	0.151	1963
1964	...	...	0	0.868	0.007	0	0	0	0.253	0	...	...	0.114	1964
1965	...	...	0	1.48	0.333	0.015	0	0	0	0	...	...	0.225	1965
1966	...	...	2.53	7.38	0.750	0	2.87	0	0	0	...	...	1.86	1966
1967	...	...	0.005	2.66	0.189	0	0	0	0	0	...	...	0.350	1967
1968	...	...	0.140	0.017	0.004	0	0	0	0	0	...	...	0.212	1968
1969	...	...	0	3.83	0.056	0.073	1.29	0.228	0.001	0	...	...	0.612	1969
1970	...	...	0	8.23	0.945	0.052	1.00	0.001	0	0	...	...	0.888	1970
1971	...	...	0	4.20	0.013	0.089	0	0	0	0	...	...	0.526	1971
1972	...	...	1.47	1.15	0.130	0	0.024	0	0	0	...	...	0.344	1972
1973	...	...	0.058	0.002	0	0	0	0	0	0	...	...	0.008	1973
1974	...	...	0	8.17	4.38	0.185	0	0	0	0	...	...	1.57	1974
1975	...	...	0	0.457	0.101	0.081	0.130	0	0	0	...	...	0.085	1975
1976	...	...	0	2.88	0.004	0.059	0	0	0	0	...	...	0.380	1976
1977	...	...	0	0.081	0	0	0	0	0	0	...	...	0.026	1977
1978	...	...	0.108	1.05	0.089	0.883	0	0	0.077	0.082	...	...	0.281	1978
1979	...	...	0	8.92	0.863	0.091	0.028	0	0	0	...	...	0.971	1979
1980	...	...	0	0.181	0	0	0	0	0	0	...	...	0.022	1980
1981	...	...	0.074	0.005	0.020	0.003	0	0	0	0	...	...	0.013	1981
1982	...	...	0.194	0.888	0.001	0	0	0	0	0	...	...	0.109	1982
1983	...	...	0.121	1.51	0.005	0	0	0	0	0	...	...	0.201	1983
1984	...	...	0.047	0.028	0.001	0	0	0	0	0	...	...	0.009	1984
1985	...	...	1.01	0.059	0	0	0	1.16	0.038	0.020	...	...	0.289	1985
1986	...	...	1.30	0.883	3.39	0.001	0.011	0.003	0	0	...	...	0.676	1986
MEAN	...	...	0.294	2.03	0.445	0.110	0.143	0.081	0.022	0.004	...	...	0.388	MEAN

LOCATION - LAT 49 20 34 N, LONG 97 50 33 W DRAINAGE AREA 178 km^2, NATURAL FLOW

SHANNON CREEK TRIBUTARY NEAR MYRTLE - STATION NO. 05OF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	16.3 ON APR 6	0.8 ON MAR 1 *	8 390	1960
1961	---	5.83 B ON MAR 24	0.8 ON MAR 1	2 170	1961
1962	---	14.7 B ON APR 20	0.8 ON MAR 1	6 410	1962
1963	---	17.2 ON JUN 5	0 ON MAR 1	3 200	1963
1964	---	3.62 B ON APR 9	0.8 ON MAR 1	2 410	1964
1965	---	7.45 B ON APR 11	0.8 ON MAR 1	4 770	1965
1966	---	78.2 B ON APR 1	0.8 ON MAR 1	35 000	1966
1967	---	19.3 B ON APR 21	0.8 ON MAR 1	7 400	1967
1968	---	13.1 ON AUG 25	0.8 ON MAR 1	4 480	1968
1969	---	43.6 B ON APR 10	0.8 ON MAR 1	13 000	1969
1970	---	43.6 ON APR 18	0.8 ON MAR 1	18 800	1970
1971	---	55.2 B ON APR 10	0.8 ON MAR 1	11 200	1971
1972	---	8.98 B ON MAR 19	0.8 ON MAR 1	7 270	1972
1973	---	0.1908 ON MAR 22	0.8 ON MAR 1	160	1973
1974	---	81.0 ON APR 17 *	0.8 ON MAR 1	33 300	1974
1975	---	3.40 ON APR 15	0.8 ON MAR 1	2 010	1975
1976	---	34.5 B ON APR 4	0.8 ON MAR 1	7 520	1976
1977	1.16 AT 16:50 CST ON SEP 29	1.05 ON SEP 29	0.8 ON MAR 1	549	1977
1978	3.94 AT 05:20 CST ON JUN 8	3.82 ON JUN 8	0 ON JUL 2	5 530	1978
1979	---	64.8 B ON APR 20	0.8 ON MAR 1	20 500	1979
1980	1.21 B AT 11:06 CST ON APR 8	1.14 B ON APR 8	0.8 ON MAR 1	470	1980
1981	---	0.2008 ON MAR 15	0.8 ON MAR 1	270	1981
1982	3.06 B AT 09:14 CST ON APR 13	2.48 B ON MAR 30	0.8 ON MAR 1	2 300	1982
1983	10.8 B AT 21:19 CST ON APR 5	8.87 B ON APR 5	0.8 ON MAR 1	4 250	1983
1984	0.7488 AT 07:53 CST ON MAR 29	0.5048 ON MAR 29	0.8 ON MAR 1	196	1984
1985	25.4 AT 13:14 CST ON AUG 18	13.1 ON AUG 18	0.8 ON MAR 1	6 120	1985
1986	54.4 AT 07:47 CST ON MAY 12 *	33.0 ON MAY 12	0.8 ON MAR 1	14 300	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 230	MEAN

SHELL RIVER AT ASESSIPPI - STATION NO. 05MD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	7.88	2.95	1.49	1.59	1.94	1.78	1.03	---	1914
1915	0.482	0.293	0.486	3.76	2.80	2.96	3.53	1.58	1.79	2.76	1.99	0.850	1.94	1915
1916	1.13	0.850	0.708	18.9	10.2	11.4	7.88	2.50	2.89	4.85	3.54	1.70	5.50	1916
1917	0.827	0.824	0.871	3.33	20.6	13.6	18.3	4.19	3.18	1.94	2.49	1.04	5.99	1917
1918	0.983	1.07	1.99	7.83	4.98	6.47	10.6	5.80	3.69	3.18	2.13	1.61	4.22	1918
1919	1.46	1.20	0.864	8.60	10.4	4.70	10.9	3.75	4.61	3.89	2.08	1.15	4.51	1919
1920	1.12	1.01	1.22	9.70	39.7	14.4	5.05	2.46	2.01	---	---	---	---	1920
1921	---	---	---	8.02	13.3	23.1	16.6	11.9	6.82	6.96	---	---	---	1921
MEAN	0.897	0.875	1.04	8.62	14.8	10.6	9.45	4.21	3.34	3.62	2.34	1.23	4.43	MEAN

LOCATION - LAT 50 56 50 N LONG 101 19 00 W
DRAINAGE AREA 2 000 km^2
NATURAL FLOW

SHELL RIVER AT ASESSIPPI - STATION NO. 05MD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	9.68 ON APR 18	0.2838 ON FEB 5 *	61 300	1915
1916	---	36.5 B ON APR 19	0.7088 ON MAR 1	174 000	1916
1917	---	33.7 ON JUL 13	0.5388 ON DEC 13	189 000	1917
1918	---	21.8 ON JUL 8	0.7368 ON JAN 11	133 000	1918
1919	---	16.4 ON JUL 9	0.7658 ON MAR 4	142 000	1919
1920	---	72.2 ON MAY 14 *	---	---	1920
1921	---	41.9 ON JUN 25	---	---	1921
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		140 000	MEAN

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1920	---	---	---	---	---	---	---	---	---	---	---	---	---	
1921	0.684	0.726	0.828	5.95	11.7	19.0	13.7	10.6	6.31	1.36	1.50	1.13	---	1920
1922	1.82	1.33	1.68	21.6	45.0	12.4	5.65	3.12	3.02	2.32	3.09	1.95	8.63	1921
1923	1.73	1.22	1.23	9.01	25.3	14.8	8.18	4.17	2.17	2.46	2.28	1.29	6.18	1922
1924	0.808	0.152	0.222	1.86	8.09	6.71	3.89	7.64	3.44	4.23	2.52	1.38	3.38	1923
														1924
1925	1.17	1.23	1.88	18.2	8.08	11.6	8.46	3.15	2.30	2.72	2.56	1.29	5.22	1925
1926	1.05	1.04	1.56	14.3	7.07	5.33	2.25	1.98	2.89	5.11	3.58	1.67	3.87	1926
1927	1.01	0.981	1.06	8.33	22.1	11.0	8.69	4.79	4.38	3.90	---	---	---	1927
1928	---	---	---	---	9.24	8.30	6.95	4.00	2.14	2.11	---	---	---	1928
1929	---	---	---	---	5.43	3.93	2.21	1.19	1.04	1.31	---	---	---	1929
1930	---	---	---	---	3.79	3.79	2.30	1.43	1.33	1.26	---	---	---	1930
1931	---	---	---	---	2.00	1.57	1.36	0.859	1.20	1.11	---	---	---	1931
1932	---	---	---	---	2.58	1.72	3.28	1.26	1.29	1.68	---	---	---	1932
MEAN	1.15	0.954	1.21	11.3	12.5	8.35	5.56	3.68	2.63	2.76	3.14	1.72	5.76	MEAN

LOCATION - LAT 51 10 10 N DRAINAGE AREA. 1 680 km²
LONG 101 19 40 W NATURAL FLOW

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1920	---	---	---		
1921	---	---	---	---	1920
1922	---	35.7 ON JUN 25	0.6518 ON JAN 1	226 000	1921
1923	---	83.4 ON MAY 7 *	1.27 B ON FEB 16	272 000	1922
1924	---	47.9 ON MAY 6	0.9638 ON DEC 31	195 000	1923
		18.2 ON JUN 21	0.1138 ON FEB 20 *	107 000	1924
1925	---				
1926	---	32.3 ON APR 17	1 13 B ON JAN 1	165 000	1925
1927	---	23.2 ON APR 22	0.9638 ON JAN 23	125 000	1926
1928	---	37 1 ON MAY 4	---	---	1927
1929	---	---	---	---	1928
		---	---	---	1929
1930	---	---	---		
1931	---	---	---	---	1930
1932	---	---	---	---	1931
		---	---	---	1932
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		182 000	MEAN

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	28.6	8.18	11.5	8.38	2.81	2.07	---	---	---	
1949	---	---	---	5.19	2.97	4.70	2.44	2.34	1.25	1.15	1.28	---	---	1948
														1949
1950	---	---	---	---	9.85	6.82	5.71	3.44	1.29	2.22	---	---	---	
1951	---	---	---	9.21	17.7	4.36	3.73	2.79	5.02	5.66	---	---	---	1950
1952	---	---	---	10.3	5.84	3.66	1.92	1.14	1.61	2.01	---	---	---	1951
1953	---	---	---	6.52	9.02	10.5	19.5	5.26	5.53	4.52	5.35	---	---	1952
1954	---	---	---	6.62	15.0	30.2	14.0	3.23	5.23	6.73	4.27	---	---	1953
														1954
1955	---	---	---	16.6	17.5	7.55	4.32	1.43	1.05	1.46	---	---	---	
1956	---	---	1.08	4.78	14.4	6.52	7.13	2.76	2.47	1.85	1.76	1.33	---	1955
1957	1.35	1.07	0.830	9.16	15.1	3.92	2.08	1.40	1.17	1.31	1.36	0.886	3.32	1956
1958	0.419	0.389	0.748	4.02	2.21	1.58	1.01	0.567	1.18	1.58	1.79	0.886	1.35	1957
1959	0.873	0.446	1.51	5.48	6.04	4.38	5.25	1.08	1.41	2.68	2.47	1.72	2.77	1958
														1959
1960	0.905	1.03	1.09	10.6	8.63	9.59	2.03	0.852	0.343	0.528	1.02	0.583	3.07	1960
1961	0.728	0.541	0.503	1.48	1.38	0.780	0.407	0.143	0.122	0.323	0.829	0.687	0.680	1961
1962	0.822	1.02	1.03	2.33	2.45	1.33	0.321	0.386	0.477	0.847	0.898	0.388	1.02	1962
1963	0.227	0.236	0.815	5.06	4.74	2.32	1.48	0.701	0.837	0.848	0.788	0.624	1.54	1963
1964	0.583	0.555	0.555	4.94	4.07	1.28	0.612	0.502	0.471	0.736	0.566	0.015	1.24	1964
1965	0.001	0	0	5.69	9.14	6.17	2.08	1.84	1.80	3.18	1.43	0.874	2.86	1965
1966	0.949	0.872	1.07	8.71	12.1	7.57	6.20	1.39	0.576	0.808	0.888	0.780	3.51	1966
1967	0.780	0.881	0.716	1.87	9.18	5.21	1.52	0.830	0.284	0.584	0.804	0.886	1.92	1967
1968	0.659	0.893	1.38	4.57	2.24	1.26	1.02	1.08	0.908	0.910	0.945	0.854	1.36	1968
1969	0.799	0.926	1.05	5.03	3.16	1.62	2.11	2.08	0.941	2.21	1.82	0.993	1.88	1969
1970	0.785	0.814	0.807	7.13	18.7	3.71	2.77	3.56	0.624	1.29	6.52	1.77	4.06	1970
1971	1.19	1.08	0.936	15.4	7.84	4.27	2.78	1.89	0.589	1.32	1.46	1.11	3.33	1971
1972	1.16	1.06	1.10	11.3	16.0	3.45	2.89	1.00	0.655	0.891	0.816	0.578	3.40	1972
1973	0.292	0.277	0.758	4.68	2.29	3.30	3.80	1.01	1.89	1.75	1.47	1.22	1.89	1973
1974	0.871	0.788	0.902	15.4	23.6	10.2	2.71	1.40	1.83	2.85	1.78	1.12	5.30	1974
1975	1.10	1.04	1.10	7.58	17.7	10.4	3.47	1.41	1.80	2.99	2.78	1.16	4.40	1975
1976	1.06	1.28	1.11	18.4	7.11	24.7	8.34	1.80	0.935	1.01	0.823	0.498	5.84	1976
1977	0.384	0.497	0.523	5.03	3.24	1.66	2.07	1.50	3.40	4.24	2.30	1.35	2.18	1977
1978	1.09	0.745	1.34	6.38	6.88	3.45	1.57	0.598	0.818	1.39	1.41	0.762	2.21	1978
1979	0.523	0.498	0.586	11.8	21.7	11.9	2.08	0.782	0.902	0.835	1.56	0.805	4.51	1979
1980	0.745	0.753	0.889	8.22	3.28	1.02	0.832	0.867	0.886	1.18	1.23	0.530	1.70	1980
1981	0.338	0.423	2.97	4.37	2.68	1.95	1.44	0.887	0.585	1.28	1.33	0.504	1.56	1981
1982	0.217	0.371	0.373	4.98	3.87	1.88	4.10	2.48	0.492	1.20	1.34	0.898	1.84	1982
1983	0.819	0.831	0.748	7.58	12.2	7.65	6.34	1.93	0.714	1.28	1.56	0.963	3.56	1983
1984	0.586	0.707	4.84	7.93	7.39	8.47	5.93	0.757	0.766	2.24	1.20	2.00	3.39	1984
1985	1.14	0.854	1.03	11.5	6.35	4.55	2.30	4.34	2.50	3.15	1.84	1.40	3.61	1985
1986	1.52	1.19	1.98	12.6	10.1	3.56	2.56	1.56	0.741	3.12	1.57	1.22	3.48	1986
MEAN	0.758	0.725	1.10	7.81	9.57	5.93	3.93	1.82	1.45	1.96	1.74	0.921	2.74	MEAN

LOCATION - LAT 50 57 40 N DRAINAGE AREA. 2 000 km²
LONG 101 19 05 W NATURAL FLOW

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	---	---	---	1948
1949	---	43.9 ON MAY 1	---	---	1949
		8.678 ON APR 7			
1950	---	---	---	---	
1951	---	---	---	---	
1952	---	34.3 ON MAY 9	---	---	1950
1953	---	16.5 ON APR 23	---	---	1951
1954	---	43.6 ON JUL 6	---	---	1952
		42.2 ON JUN 24	---	---	1953
1955	---	---	---	---	1954
1956	---	25.3 ON MAY 14	---	---	
1957	---	20.2 ON MAY 12	---	---	1955
1958	---	28.1 ON MAY 8	---	---	1956
1959	---	7.858 ON APR 9	0.6808 ON DEC 30	105 000	1957
		10.1 ON MAY 9	0.7838 ON JAN 25	42 400	1958
1960	---	---	0.3118 ON FEB 10	87 800	1959
1961	---	21.5 ON APR 15	---	---	
1962	---	2.758 ON APR 15	0.1986 ON SEP 30	97 000	1960
1963	---	8.97 ON APR 24	0.020 ON SEP 5	20 800	1961
1964	---	8.72E ON MAY 17	0.227 ON JUL 27	32 200	1962
		11.6 B ON APR 12	0.1478 ON JAN 11	48 700	1963
1965	---	---	0.0038 ON DEC 27	39 000	1964
1966	---	14.0 ON MAY 8	---	---	
1967	---	18.5 A ON MAY 14	0 B ON JAN 8 *	83 800	1965
1968	---	11.2 A ON MAY 12	0.436 ON SEP 25	111 000	1966
1969	---	7.628 ON APR 12	0.167 ON SEP 12	80 800	1967
		15.1 A ON APR 19	0.5528 ON DEC 17	42 800	1968
1970	28.4 AT 19:36 CST ON MAY 15	28.0 ON MAY 15	0.612A ON SEP 18	89 300	1969
1971	30.3 AT 19:46 CST ON APR 28	30.0 ON APR 28	0.303 ON SEP 20	128 000	1970
1972	27.9 AT 08:31 CST ON MAY 7	27.7 ON MAY 7	0.479 ON SEP 22	105 000	1971
1973	---	7.938 ON APR 11	0.3898 ON DEC 31	108 000	1972
1974	46.4 AT 05:02 CST ON APR 24 *	43.3 ON APR 24	0.2498 ON JAN 20	59 500	1973
1975	26.3 AT 05:04 CST ON MAY 7	26.0 ON MAY 6	0.7798 ON FEB 12	187 000	1974
1976	---	68.8 E ON JUN 22 *	0.8508 ON DEC 15	139 000	1975
1977	19.5 AT 15:36 CST ON APR 17	16.5 ON APR 17	0.4138 ON DEC 31	178 000	1976
1978	12.6 AT 09:47 CST ON APR 23	12.4 ON APR 26	0.3238 ON JAN 23	88 800	1977
1979	46.8 AT 23:07 CST ON MAY 23	44.8 ON MAY 24	0.385 ON AUG 12	89 500	1978
1980	13.0B AT 23 10 CST ON APR 12	11.8 ON APR 21	0.259 ON OCT 5	142 000	1979
1981	---	6.93E ON APR 2	0.358 ON AUG 2	53 900	1980
1982	13.7 AT 01:24 CST ON JUL 25	13.1 ON JUL 24	0.3108 ON DEC 31	49 300	1981
1983	---	22.1 A ON APR 24	0.1888 ON JAN 31	58 100	1982
1984	17.8 AT 14:56 CST ON JUL 4	17.7 ON JUL 4	0.454 ON SEP 29	112 000	1983
1985	22.8 AT 00:13 CST ON APR 14	18.3 ON APR 17	0.050 ON SEP 8	107 000	1984
1986	20.0B AT 22:40 CST ON APR 7	18.3 ON APR 8	0.8098 ON FEB 25	108 000	1985
			0.4858 ON MAR 21	110 000	1986
				86 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.583	---	1962
1963	0.419	0.303	0.375	2.42	2.87	1.37	0.828	0.429	0.402	0.521	0.480	0.308	1.11	1963
1964	0.301	0.253	0.227	2.21	2.87	0.585	0.355	0.338	0.319	0.522	0.709	0.180	1.47	1964
1965	0.082	0.088	0.143	3.95	7.50	4.75	1.45	1.19	1.26	2.14	0.983	0.880	4.08	1965
1966	0.716	0.828	0.848	5.60	10.5	6.50	4.37	0.713	0.368	0.505	0.642	0.588	5.88	1966
1967	0.580	0.441	0.341	2.00	7.51	3.85	0.897	0.470	0.235	0.441	0.502	0.478	3.38	1967
1968	0.534	0.510	0.842	2.48	1.13	0.958	0.788	0.835	0.838	0.578	0.838	0.857	1.30	1968
1969	0.808	0.612	0.822	4.84	2.08	1.32	1.75	1.26	0.458	2.14	1.22	0.711	2.18	1969
1970	0.585	0.534	0.523	3.22	16.8	3.09	2.89	2.35	0.509	1.41	3.72	1.28	5.94	1970
1971	0.873	0.858	0.800	13.5	4.88	2.68	2.04	1.68	0.370	0.922	1.33	1.13	5.38	1971
1972	0.818	0.724	0.777	6.97	13.6	1.97	1.97	0.580	0.400	0.613	0.623	0.447	5.85	1972
1973	0.204	0.173	0.783	2.21	1.81	2.38	2.76	0.674	1.13	1.28	1.08	1.01	1.78	1973
1974	0.808	0.490	0.888	9.35	18.8	7.88	1.92	0.934	1.23	2.07	1.30	0.828	9.23	1974
1975	0.785	0.840	0.850	6.14	15.7	8.91	2.47	0.946	1.20	2.18	2.04	0.954	7.91	1975
1976	0.742	0.776	0.881	12.7	4.72	16.6	5.80	1.27	0.825	0.785	0.808	0.413	9.12	1976
1977	---	---	0.483	2.87	2.17	1.08	---	---	---	---	---	---	1.84	1977
1978	---	---	0.845	4.28	3.89	1.75	---	---	---	---	---	---	2.89	1978
1979	---	---	0.575	5.21	19.7	8.84	---	---	---	---	---	---	8.55	1979
1980	---	---	0.867	5.35	1.84	0.886	---	---	---	---	---	---	2.12	1980
1981	---	---	1.30	2.67	1.72	1.49	---	---	---	---	---	---	1.79	1981
1982	---	---	0.194	2.91	2.28	1.12	---	---	---	---	---	---	1.82	1982
1983	---	---	0.808	4.16	10.0	5.87	4.55	---	---	---	---	---	5.20	1983
1984	---	---	1.26	5.20	7.38	7.00	---	---	---	---	---	---	5.20	1984
1985	---	---	0.885	8.29	4.97	3.81	---	---	---	---	---	---	4.48	1985
1986	---	---	1.02	10.7	8.31	2.38	---	---	---	---	---	---	5.58	1986
MEAN	0.548	0.481	0.673	5.39	7.20	4.10	2.32	0.877	0.853	1.15	1.14	0.702	4.34	MEAN

LOCATION - LAT 51 21 38 N
LONG 101 15 21 W
DRAINAGE AREA, 1 330 km^2
NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	4.47 ON MAY 15	0.3098 ON MAR 1	18 000	1964
		7.14 ON MAY 10	0.2278 ON MAR 1	15 500	
1965	---	---	---	---	1965
1966	---	14.0 ON MAY 4	0.1088 ON MAR 1 *	43 000	1966
1967	---	18.0 ON MAY 10	0.6238 ON MAR 1	61 800	1967
1968	---	9.63 ON MAY 11	0.3118 ON MAR 14	35 700	1968
1969	---	4.28 ON APR 16	0.5138 ON MAR 21	13 700	1969
		13.7 ON APR 17	0.5158 ON MAR 1	22 900	
1970	---	---	---	---	1970
1971	---	29.4 ON MAY 11	0.5218 ON MAR 18	62 700	1971
1972	---	27.9 ON APR 23	0.5898 ON MAR 1	56 800	1972
1973	---	29.7 ON MAY 2	0.7028 ON MAR 11	61 700	1973
1974	---	3.518 ON APR 13	0.3988 ON MAR 1	18 700	1974
		30.0 ON APR 30	0.8698 ON MAR 1	97 200	
1975	---	---	---	---	1975
1976	---	25.9 ON MAY 3	0.8508 ON MAR 1	83 400	1976
1977	---	45.9 ON JUN 18 *	0.8818 ON MAR 1	95 100	1977
1978	---	5.758 ON APR 14	0.3118 ON MAR 31	17 300	1978
1979	44.2 AT 07 25 CST ON MAY 20 *	9.80 ON APR 28	0.7798 ON MAR 1	28 300	1979
		43.2 ON MAY 20	0.5508 ON MAR 1	90 100	
1980	9.56 AT 15:00 CST ON APR 19	9.36 ON APR 19	0.5408 ON JUN 26	22 400	1980
1981	---	5.188 ON MAR 30	0.6008 ON MAR 1	18 900	1981
1982	---	6.178 ON APR 23	0.1758 ON MAR 1	17 100	1982
1983	16.7 AT 08:07 CST ON MAY 28	15.6 ON MAY 26	0.5508 ON MAR 1	54 800	1983
1984	---	18.3 ON JUN 30	0.6578 ON MAR 1	54 800	1984
1985	17.8 AT 23:54 CST ON APR 25	17.8 ON APR 28	0.7208 ON MAR 3	47 000	1985
1986	18.1 AT 05:16 CST ON APR 14	17.8 ON APR 14	0.8248 ON MAR 1	58 900	1986
				45 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.001	0.278	0.245	0.084	0.088	0.049	0.348	0.493	---	---	0.198	1977
1978	---	---	0.034	0.492	0.341	0.317	0.082	0.008	0.050	0.132	---	---	0.178	1978
1979	---	---	0.019	0.980	1.73	0.778	0.034	0.001	0.004	0.068	---	---	0.450	1979
1980	---	---	0.034	0.868	0.108	0.002	0	0	0.008	0.089	---	---	0.110	1980
1981	---	---	0.076	0.218	0.147	0.127	0.403	0	0	0.089	---	---	0.133	1981
1982	---	---	0.002	0.182	0.254	0.022	0.083	0.289	0	0.232	---	---	0.134	1982
1983	---	---	0	0.826	0.977	1.11	1.23	0.002	0	0.148	---	---	0.538	1983
1984	---	---	0.087	0.336	0.293	1.81	1.44	0.010	0	0.111	---	---	0.508	1984
1985	---	---	0.018	0.937	0.235	0.589	0.084	0.136	0.333	0.231	---	---	0.314	1985
1986	---	---	0.118	1.19	2.74	0.271	0.248	0.107	0.057	0.405	---	---	0.844	1986
MEAN	---	---	0.039	0.611	0.707	0.509	0.386	0.060	0.080	0.198	---	---	0.320	MEAN

LOCATION - LAT 51 12 28 N
LONG 100 41 42 W
DRAINAGE AREA, 137 km^2
REGULATED

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	0.858 AT 05:48 CST ON SEP 28	0.844 ON SEP 28	0.08 ON MAR 1 *	4 180	1977
1978	0.926 AT 19:59 CST ON OCT 27	0.7848 ON APR 20	0 ON AUG 4	3 770	1978
1979	---	5.71 B ON APR 21	0 ON JUL 21	9 540	1979
1980	1.52 AT 08:30 CST ON APR 19	1.44 ON APR 19	0 ON MAY 30	2 320	1980
1981	4.72 AT 00:08 CST ON JUL 2	2.69 ON JUL 2	0.08 ON MAR 1	2 810	1981
1982	---	1.28 ON AUG 8	0.08 ON MAR 1	2 830	1982
1983	---	5.08 B ON APR 23	0.08 ON MAR 1	11 400	1983
1984	5.76 AT 12:11 CST ON JUN 24	5.25 ON JUN 26	0.08 ON MAR 1	10 800	1984
1985	2.09 AT 08:17 CST ON APR 23	2.04 ON APR 23	0 ON JUL 18	5 680	1985
1986	11.7 AT 22:50 CST ON MAY 12 *	9.26 ON MAY 11 *	0.08 ON MAR 1	13 600	1986
				6 790	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.089	0.140	0.156	0.140	0.281	1.29	0.133	0.035	---	---	0.285	1968
1969	---	---	0	2.27	1.40	1.04	0.377	0.238	0.227	1.90	---	---	0.927	1969
1970	---	---	0.001	3.73	5.57	0.720	1.93	0.575	0.156	2.51	---	---	1.90	1970
1971	---	---	0.013	7.95	1.11	3.54	1.38	0.538	0.016	0.275	---	---	1.83	1971
1972	---	---	0.012	5.04	3.40	0.242	0.460	0.037	0.004	0.008	---	---	1.14	1972
1973	---	---	0.180	0.577	0.695	4.16	1.41	0.184	0.730	0.510	---	---	1.04	1973
1974	---	---	0.008	7.73	7.61	1.84	0.086	0.038	0.204	0.255	---	---	2.21	1974
1975	---	---	0	3.25	3.27	1.60	0.080	0.001	0.223	0.668	---	---	1.13	1975
1976	---	---	0.002	5.22	0.951	3.90	0.440	0.015	0	0	---	---	1.30	1976
1977	---	---	0	0.778	0.190	0.059	0.082	0.256	1.70	0.891	---	---	0.491	1977
MEAN	---	---	0.029	3.87	2.44	1.72	0.651	0.315	0.339	0.705	---	---	1.23	MEAN

LOCATION - LAT 52 10 20 N LONG 100 56 30 W DRAINAGE AREA, 291 km² NATURAL FLOW

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1968	---	3.80 ON JUL 31	0E ON MAR 1 *	6 030	1968
1969	---	7.90 ON APR 14	0E ON MAR 1	19 500	1969
1970	---	18.9 ON MAY 3	0E ON MAR 1	40 300	1970
1971	---	25.9 ON APR 17	0 ON SEP 22	38 700	1971
1972	16.4 AT 12 00 CST ON APR 22	15.2 ON APR 22	0E ON MAR 1	24 200	1972
1973	16.5 AT 15 55 CST ON JUN 20	15.0 ON JUN 20	0E ON MAR 1	22 100	1973
1974	41.1 B AT 23 15 CST ON APR 19 *	35.4 ON APR 20 *	0 ON AUG 11	46 700	1974
1975	9.23 AT 17 57 CST ON MAY 3	8.52 ON MAY 3	0E ON MAR 1	23 800	1975
1976	18.1 AT 18 37 CST ON JUN 14	16.1 ON JUN 14	0E ON MAR 1	27 400	1976
1977	---	4.42 ON SEP 28	0E ON MAR 1	10 400	1977
				25 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05OB016

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.058	0.075	0.027	0.011	0	0	0	0	0	0	---	1961
1962	0	0	0	0.466	0.025	0	0	0	0	0	0	0	0.040	1962
1963	0	0	0.087	0.019	0.017	0.085	0.017	0.001	0	0	0	0	0.017	1963
1964	0	0	0.051	0.189	0.008	0.005	0.001	0	0	0	0	0	0.021	1964
1965	0	0	0.008	0.358	0.084	0.079	0.023	0.002	0.049	0.086	0.039	0	0.080	1965
1966	0	0	0.824	3.46	1.63	0.420	0.235	0.110	0.036	0.010	0.002	0	0.545	1966
1967	0	0	0.179	1.31	2.77	0.706	0.270	0.058	0.042	0.347	0.099	0.001	0.485	1967
1968	0	0	0.141	0.395	0.111	0.007	0.100	0.284	0.167	0.021	0.002	0	0.103	1968
1969	0	0	0	7.56	2.94	0.627	0.346	0.117	0.005	0	0	0	0.962	1969
1970	0	0	0	2.09	4.39	2.24	0.980	0.312	0.232	0.087	0.024	0	0.856	1970
1971	0	0	0	8.37	3.85	0.639	0.734	0.188	0.084	0.071	0.013	0.002	1.17	1971
1972	0	0	0.477	3.59	1.47	0.157	0.006	0	0	0	0	0	0.473	1972
1973	0	0	0.149	0.006	0.002	0	0	0	0	0	0	0	0.013	1973
1974	0	0	0	6.81	10.8	3.48	0.845	0.276	0.194	0.135	0.080	0.012	1.88	1974
1975	0	0	0.117	0.736	1.03	0.334	0.028	0.002	0.005	0.006	0.001	0	0.189	1975
1976	0	0	0.017	5.68	1.74	0.517	0.289	0.188	0.045	0.001	0	0	0.701	1976
1977	0	0	0.008	0.074	0.047	0.008	0	0	0.003	0	0	0	0.012	1977
1978	0	0	0.013	2.63	1.23	0.084	0.020	0.011	0	0	0	0	0.346	1978
1979	0	0	0	6.29	11.1	1.69	0.534	0.050	0.071	0.002	0.002	0	1.85	1979
1980	0	0	0.005	0.359	0.057	0.001	0	0	0.005	0.074	0.148	0.009	0.054	1980
1981	0	0.140	0.188	0.598	0.303	0.115	0.016	0.003	0.001	0.002	0.001	0	0.111	1981
1982	0	0	0.188	1.76	0.657	1.92	0.123	0.008	0	0.005	0.004	0.021	0.388	1982
1983	0	0	0.208	0.868	0.210	0.010	0.146	0.063	0	0.002	0.002	0	0.109	1983
1984	0	0.001	0.110	0.085	0.057	0.002	0	0	0	0	0	0	0.021	1984
1985	0	0	0.628	1.80	0.112	0.120	0.083	0.003	0	0.011	0.002	0	0.211	1985
1986	0	0	0.578	1.54	1.15	1.18	0.187	0.006	0	0	0	0	0.386	1986
MEAN	0	0.006	0.145	2.18	1.77	0.665	0.184	0.064	0.036	0.032	0.017	0.002	0.432	MEAN

LOCATION - LAT 49 01 17 N LONG 98 36 13 W DRAINAGE AREA, 980 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05OB015

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	0.3858 ON MAR 27	0B ON MAR 1 *	---	1961
1962	---	2.86 ON APR 18	0 ON JAN 1	1 280	1962
1963	---	0.280 ON MAR 21	0 ON JAN 1	543	1963
1964	---	0.614 ON APR 9	0 ON JAN 1	882	1964
1965	---	1.25 ON APR 11	0B ON JAN 1	1 910	1965
1966	---	6.43 ON APR 14	0B ON JAN 1	17 200	1966
1967	---	8.78 B ON APR 20	0B ON JAN 1	15 300	1967
1968	3.77 AT 07:50 CST ON JUL 30	1.73 ON AUG 25	0B ON JAN 1	3 240	1968
1969	---	18.5 A ON APR 11	0B ON JAN 1	30 400	1969
1970	---	7.90 ON APR 25	0B ON JAN 1	27 300	1970
1971	18.6 B AT 00:00 CST ON APR 12	16.2 B ON APR 11	0B ON JAN 1	36 800	1971
1972	---	9.86 ON APR 17	0B ON JAN 1	15 000	1972
1973	0.6008 AT 11:25 CST ON MAR 18	0.4358 ON MAR 11	0B ON JAN 1	422	1973
1974	23.3 AT 03:28 CST ON MAY 21 *	19.0 ON MAY 21	0B ON JAN 1	58 700	1974
1975	4.47 AT 20:30 CST ON APR 28	2.81 ON MAY 1	0B ON JAN 5	5 880	1975
1976	---	9.74 B ON APR 8	0B ON JAN 1	22 200	1976
1977	0.824 AT 03:41 CST ON MAY 19	0.460 ON MAY 19	0B ON JAN 1	386	1977
1978	6.99 AT 21:00 CST ON APR 27	6.37 ON APR 28	0B ON JAN 1	10 800	1978
1979	---	32.0 B ON APR 21 *	0B ON JAN *	52 000	1979
1980	1.89 B AT 09:42 CST ON APR 5	1.21 B ON APR 5	0B ON JAN 1	1 720	1980
1981	2.31 AT 22:16 CST ON MAY 22	0.705 ON APR 7	0B ON JAN 1	3 510	1981
1982	---	14.3 ON JUN 5	0B ON JAN 1	12 200	1982
1983	1.60 B AT 10:55 CST ON APR 6	1.13 B ON APR 7	0B ON JAN 1	3 440	1983
1984	0.640 AT 13:39 CST ON MAR 28	0.421 ON MAR 28	0B ON JAN 1	872	1984
1985	5.38 B AT 12:06 CST ON APR 8	3.25 B ON APR 7	0B ON JAN 1	6 880	1985
1986	12.1 AT 04:56 CST ON JUN 3	8.17 ON JUN 3	0B ON JAN 1	12 200	1986
				13 800	MEAN

A - MANUAL GAUGE
B - ICE CONDITIONS
(SEE REFERENCE INDEX)
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT MELITA - STATION NO. OSNF001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	---	3.80	2.39	1.04	0.961	0.886	---	---	---	1913
1914	---	---	---	---	---	---	4.27	3.16	1.20	0.555	---	---	---	1914
1915	0	0	0	0.714	2.03	1.10	0.783	0.274	0.639	0.874	0.188	0	0.951	1915
1916	0	0	0	44.2	64.2	37.5	9.80	5.19	1.66	1.54	0.586	0.142	36.4	1916
1917	0.120	0.110	0.473	20.1	26.7	10.4	2.56	0.488	0.273	0.227	0.447	0.080	14.4	1917
1918	0	0	1.82	10.8	4.79	2.05	0.489	0.481	0.342	0.358	0.284	---	4.85	1918
1919	---	---	---	31.2	27.4	3.25	0.882	0.172	0.160	0.368	---	---	---	1919
1920	---	---	---	24.7	43.8	20.4	3.62	1.58	0.811	0.610	---	---	---	1920
1921	---	---	---	5.67	4.10	2.44	4.18	4.44	1.80	0.935	0.531	---	---	1921
1922	---	---	0.846	35.1	28.9	10.1	3.39	1.76	0.892	---	---	---	18.7	1922
1935	---	---	---	---	---	---	---	---	---	0.072	---	---	---	1935
1936	---	---	---	9.39	0.846	0.098	0.040	0	0	---	---	---	---	1936
1975	---	---	0.805	42.5	184	146	80.1	---	---	---	---	---	93.4	1975
1976	---	---	12.5	387	216	76.1	26.4	16.7	8.81	---	---	---	172	1976
MEAN	0.030	0.028	2.33	55.8	64.8	26.1	9.13	2.94	1.43	0.803	0.405	0.087	48.7	MEAN

LOCATION - LAT 49 15 50 N
LONG 100 58 20 W
DRAINAGE AREA, 49 100 km^2
REGULATED

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1882 AND 1904 WERE 850 AND 481 m^3/s RESPECTIVELY

SOURIS RIVER AT MELITA - STATION NO. OSNF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	---	---	---	1914
1915	---	5.13 ON JUN 18	0 E ON MAR 1 *	10 100	1915
1916	---	107 ON APR 22	0 B ON MAR 1	383 000	1916
1917	---	29.2 ON MAY 5	0.1138 ON MAR 1	152 000	1917
1918	---	15.4 ON APR 10	0.1138 ON MAR 1	51 100	1918
1919	---	39.8 ON APR 21	1.73 ON JUN 26	---	1919
1920	---	85.0 ON APR 24	0 B ON APR 1	---	1920
1921	---	14.2 B ON APR 15	0 B ON APR 1	---	1921
1922	---	46.2 ON APR 8	0 B ON MAR 1	197 000	1922
1935	---	---	---	---	1935
1936	---	26.0 ON APR 18	0 B ON APR 1	---	1936
1975	---	242 ON MAY 7	0.3688 ON MAR 1	985 000	1975
1976	---	555 B ON APR 12 *	5.86 B ON MAR 1	1 810 000	1976
				513 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.414	13.7	15.1	4.47	0.640	0.509	0.434	0.619	---	---	4.47	1967
1968	---	---	1.25	0.885	0.942	0.487	0.376	1.95	5.78	4.70	---	---	2.17	1968
1969	---	---	0.242	125	153	88.4	20.1	16.7	3.05	1.91	---	---	48.4	1969
1970	---	---	1.39	19.8	80.8	83.0	46.8	12.8	2.41	2.32	---	---	31.1	1970
1971	---	---	2.09	20.8	39.5	19.3	13.0	11.3	2.05	3.65	---	---	14.0	1971
1972	---	---	14.0	72.5	70.8	26.0	19.4	5.00	3.51	4.13	---	---	26.8	1972
1973	---	---	2.15	1.10	5.81	3.12	3.77	1.81	1.76	4.00	---	---	2.95	1973
1974	---	---	1.67	89.0	167	113	36.3	6.08	2.89	1.91	---	---	52.0	1974
1975	---	---	0.820	30.3	218	175	76.1	18.7	9.37	27.5	---	---	69.5	1975
1976	---	---	6.56	483	278	102	35.8	17.3	9.15	3.35	---	---	116	1976
1977	---	---	1.62	1.63	1.53	1.05	0.748	0.375	0.641	0.618	---	---	1.03	1977
1978	---	---	0.719	16.0	11.7	2.17	4.37	6.88	4.48	0.889	---	---	5.86	1978
1979	---	---	1.76	26.7	141	121	37.9	5.84	1.51	0.991	---	---	42.0	1979
1980	---	---	0.821	4.15	5.10	0.755	0.703	0.989	1.05	3.11	---	---	2.10	1980
1981	---	---	6.23	6.88	4.30	4.18	2.02	1.23	1.00	1.02	---	---	3.35	1981
1982	---	---	0.261	35.6	56.2	24.8	2.90	3.78	4.85	6.67	---	---	16.8	1982
1983	---	---	16.1	78.5	82.8	9.86	5.07	5.07	12.1	6.06	---	---	24.4	1983
1984	---	---	2.99	5.60	20.5	16.0	3.50	2.00	1.45	2.01	---	---	6.73	1984
1985	---	---	16.7	15.3	15.7	10.6	1.73	2.74	4.58	5.20	---	---	9.04	1985
1986	---	---	8.89	16.6	24.1	7.82	2.54	2.12	1.16	5.18	---	---	8.55	1986
MEAN	---	---	4.35	53.1	68.6	39.6	15.7	5.16	3.71	4.28	---	---	24.4	MEAN

LOCATION - LAT 49 37 10 N DRAINAGE AREA 58 000 km²
LONG 100 15 00 W REGULATED

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	23.3 ON APR 22	0.2488 ON MAR 1	84 800	1967
1968	---	7.70 ON SEP 8	0.054 ON JUN 3 *	45 900	1968
1969	---	314 ON APR 21	0.2278 ON MAR 1	1 030 000	1969
1970	---	98.3 ON MAY 17	1.30 B ON MAR 31	851 000	1970
1971	---	43.3 ON MAY 4	1.16 ON SEP 4	296 000	1971
1972	---	100 ON APR 27	1.56 B ON MAR 1	588 000	1972
1973	---	12.0 ON MAY 26	0.294 ON APR 23	82 500	1973
1974	---	254 ON APR 28	0.7088 ON MAR 23	1 100 000	1974
1975	---	289 ON MAY 11	0.8508 ON APR 1	1 470 000	1975
1976	---	702 ON APR 14 *	2.03 ON OCT 21	2 450 000	1976
1977	---	3.54 ON MAY 22	0.244 ON SEP 21	21 700	1977
1978	---	26.9 B ON APR 17	0.255 ON JUL 10	124 000	1978
1979	---	189 ON MAY 26	0.083 ON SEP 16	890 000	1979
1980	---	5.288 ON APR 14	0.2278 ON MAR 1	44 400	1980
1981	15.2 AT 08 02 CST ON MAR 17	12.9 ON MAR 17	0.753 ON OCT 23	70 800	1981
1982	79.58 AT 16 41 CST ON APR 15	76.7 B ON APR 15	0.0858 ON MAR 27	356 000	1982
1983	91.8 AT 13 18 CST ON APR 12 *	91.4 ON APR 12	1.72 ON OCT 24	517 000	1983
1984	27.8 AT 10 20 CST ON JUN 2	27.3 ON JUN 2	0.9888 ON MAR 6	143 000	1984
1985	65.18 AT 23 14 CST ON MAR 24	58.4 B ON MAR 25	0.1788 ON MAR 10	191 000	1985
1986	31.2 AT 23 00 CST ON MAY 5	29.5 ON MAY 6	0.830 ON SEP 8	181 000	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		516 000	MEAN

SOURIS RIVER AT WAWANESA - STATION NO 05NG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	2.27	---	---	---	1912
1913	0.283	---	---	---	---	---	---	---	---	---	---	---	---	1913
1914	0.142	0	0	27.4	28.0	4.71	1.42	1.18	1.23	1.05	0.706	0.425	---	1914
				14.2	19.3	5.70	4.82	2.76	1.56	0.803	0.567	0.142	4.25	
1915	0	0	0.057	3.41	1.81	1.41	1.13	0.124	0.848	0.949	0.429	0.057	0.850	1915
1916	0.028	0	0.057	56.0	74.6	46.6	13.7	8.16	2.38	2.24	1.89	0.588	17.0	1916
1917	0	0	0.418	23.9	29.8	14.6	3.78	1.08	0.387	0.383	0.888	0.085	6.27	1917
1918	0	0	2.08	13.0	5.80	3.01	0.786	0.589	0.350	1.04	0.823	0.514	2.35	1918
1919	0.177	0	0.271	37.5	33.2	5.34	1.80	0.523	0.297	0.311	0.227	0.028	8.84	1919
1920	0	0	0	18.8	51.5	28.0	5.27	2.02	1.28	1.14	0.586	---	---	1920
1921	---	---	---	7.07	5.54	3.50	2.88	5.36	2.12	1.38	0.731	---	---	1921
1922	---	---	0.883	38.2	30.7	13.1	3.83	2.21	1.14	0.972	1.18	---	---	1922
1923	---	---	---	46.6	87.4	40.2	16.7	13.0	3.89	2.52	2.21	---	---	1923
1924	---	---	---	---	14.0	5.81	7.85	2.08	0.935	1.37	---	---	---	1924
1925	---	---	---	48.1	38.8	28.7	8.30	2.32	1.28	1.42	---	---	---	1925
1926	---	---	---	3.21	3.11	2.22	2.82	1.41	1.21	1.26	---	---	---	1926
1927	---	---	---	42.7	57.5	78.4	52.8	17.1	10.4	8.22	7.89	---	---	1927
1928	---	---	---	43.3	42.1	24.4	32.2	28.3	13.8	5.85	3.24	---	---	1928
1929	---	---	---	12.2	8.73	8.35	2.82	0.563	1.02	0.986	0.321	---	---	1929
1930	---	---	---	35.9	18.8	5.54	2.28	0.400	0.068	0.217	---	---	---	1930
1931	---	---	---	1.14	0.337	0.144	0.088	0.002	0.001	0.001	0.001	0	---	1931
1932	0	0	0	3.56	2.56	1.17	0.896	0.092	0.009	0.104	---	---	---	1932
1933	---	---	2.80	28.8	10.4	2.57	4.28	1.48	0.774	0.112	---	---	---	1933
1934	---	---	---	14.0	2.51	0.498	0.042	0	0	0	0	0	---	1934
1935	0	0	---	4.81	2.86	2.08	20.6	4.78	0.936	0.238	0.142	0	---	1935
1936	0	0	0	24.4	2.85	0.712	0.048	0	0	0	0	0	2.28	1936
1937	0	0	0	0.714	0.301	0.421	0.057	0.123	0.001	0	0	0	0.134	1937
1938	0	0	5.84	1.07	0.347	0.107	0.023	0.002	0	0	0	0	0.808	1938
1939	0	0	3.53	8.62	0.295	0.218	0.027	0	0	---	---	---	---	1939
1940	---	---	---	---	---	0.378	0.058	0.018	0.933	0.020	---	---	---	1940
1941	---	---	---	---	11.7	0.880	0.354	0.090	0.045	0.415	0.874	---	---	1941
1942	---	---	---	---	---	14.1	3.47	0.815	0.580	0.885	---	---	---	1942
1943	---	---	---	---	40.6	52.0	43.3	22.3	8.27	1.59	---	---	---	1943
1944	---	---	---	---	5.16	9.03	9.31	35.6	8.52	8.94	4.79	---	---	1944
1945	---	---	---	---	24.1	8.83	1.95	2.11	2.51	0.588	0.500	---	---	1945
1946	---	---	---	---	24.6	2.49	0.812	0.788	0.280	1.01	1.82	---	---	1946
1947	---	---	---	---	41.4	28.2	12.2	22.4	10.6	5.01	1.52	---	---	1947
1948	---	---	---	---	---	87.0	59.7	27.1	17.2	4.74	3.25	---	---	1948
1949	---	---	---	---	116	84.0	30.4	8.23	4.03	2.35	1.83	---	---	1949
1950	---	---	---	---	35.2	77.3	71.2	25.4	19.6	10.0	5.84	---	---	1950
1951	---	---	---	---	73.7	104	80.7	17.8	3.21	4.80	4.24	---	---	1951
1952	---	---	---	---	28.4	22.3	4.22	2.57	1.93	1.10	0.140	---	---	1952
1953	---	---	---	---	10.8	18.0	23.7	30.4	30.4	6.35	3.11	6.75	1.70	1953
1954	3.82	3.55	4.96	10.7	8.90	28.8	48.8	22.3	8.23	16.8	11.2	6.85	14.7	1954
1955	5.25	4.47	3.29	97.4	105	78.6	44.3	16.2	9.27	8.13	4.32	1.58	31.6	1955
1956	0.819	0.842	0.518	74.9	83.9	86.8	21.7	10.1	7.45	6.47	7.51	2.88	23.6	1956
1957	1.05	0.840	5.39	8.25	10.4	9.10	5.70	5.20	3.94	2.86	3.07	2.19	4.80	1957
1958	0.396	0.932	4.16	15.0	4.56	3.20	1.44	0.504	0.481	0.853	0.280	0.023	2.83	1958
1959	0.003	0.003	2.78	3.38	0.678	0.809	0.884	0.174	0.527	1.83	3.48	1.07	1.24	1959
1960	0.853	0.767	0.590	85.4	41.7	17.2	2.35	0.800	0.954	1.10	0.728	0.353	12.7	1960
1961	0.159	0.184	0.786	3.01	1.13	0.335	0.344	0.017	0.041	0.219	0.298	0.083	0.850	1961
1962	0.039	0.048	0.082	10.7	1.37	1.55	0.883	0.726	0.820	1.27	0.264	0.217	1.47	1962
1963	0.072	0	0.828	3.27	1.26	5.83	3.58	0.572	0.854	0.610	0.575	0.181	1.47	1963
1964	0.028	0.083	0.147	13.6	13.5	2.04	4.67	0.948	2.14	3.82	0.806	0.147	3.48	1964
1965	0.135	0.081	0.088	17.0	12.8	17.0	14.8	8.09	8.37	7.57	2.84	1.85	7.38	1965
1966	1.58	1.17	20.9	23.0	30.0	13.0	4.73	2.02	0.757	0.786	0.575	0.281	8.28	1966
1967	0.252	0.192	0.720	15.3	16.9	5.31	0.882	0.220	0.084	0.882	0.638	0.201	3.43	1967
1968	0.112	0.128	3.73	1.99	0.696	0.486	0.747	1.35	5.87	5.88	1.86	0.801	1.86	1968
1969	0.470	0.808	0.480	159	188	79.9	24.8	18.7	4.03	2.14	1.84	1.80	38.6	1969
1970	1.97	1.89	1.41	32.0	85.9	84.7	50.9	15.8	3.02	2.86	2.22	0.706	23.7	1970
1971	0.434	0.882	1.57	23.0	39.5	20.0	13.2	11.1	2.22	3.27	6.18	3.24	10.4	1971
1972	2.47	2.07	18.6	74.5	75.8	25.6	20.3	7.24	4.11	4.16	6.78	0.721	20.3	1972
1973	0.451	0.898	3.24	1.73	6.25	3.80	3.54	2.08	2.14	4.38	1.04	0.631	2.45	1973
1974	0.584	0.978	1.85	121	174	119	38.8	5.77	3.27	2.43	3.94	1.88	38.5	1974
1975	1.03	0.889	1.06	48.2	212	175	85.5	22.4	10.4	26.8	24.8	12.2	52.1	1975
1976	9.01	7.47	7.50	488	288	107	38.3	20.1	11.1	3.71	2.40	1.83	81.8	1976
1977	1.50	1.08	1.74	2.18	1.86	1.05	1.13	0.498	1.04	0.828	0.810	0.816	1.18	1977
1978	0.770	0.789	0.828	25.8	13.0	2.65	4.44	5.13	4.23	0.523	0.722	0.442	8.03	1978
1979	0.485	0.822	1.58	28.5	137	118	37.1	8.23	1.62	1.03	0.881	0.261	28.0	1979
1980	0.188	0.254	0.841	6.18	4.87	1.18	0.773	1.29	1.34	3.36	3.36	1.98	2.15	1980
1981	1.24	3.84	7.59	5.78	4.52	4.11	2.22	1.98	1.84	1.56	1.85	0.581	3.13	1981
1982	0.142	0.133	1.04	40.6	87.7	26.6	3.04	3.41	4.39	6.38	8.78	1.95	12.9	1982
1983	1.81	2.41	13.7	85.9	87.1	11.7	8.07	4.92	11.7	6.44	6.22	1.26	19.1	1983
1984	0.804	1.34	4.54	7.03	20.5	17.8	3.53	2.14	1.75	2.51	2.28	1.44	5.44	1984
1985	0.490	0.237	25.2	20.3	15.8	10.8	1.73	2.65	4.61	5.05	2.16	1.85	7.59	1985
1986	1.85	1.54	13.4	18.1	30.2	8.22	2.83	2.50	0.931	5.39	2.84	1.04	7.42	1986
MEAN	0.857	0.885	3.88	38.5	37.8	23.2	11.9	5.45	2.93	2.85	2.70	1.19	12.4	MEAN

LOCATION - LAT 49 38 05 N
LONG 99 40 55 W

DRAINAGE AREA, 80 400 km²
REGULATED

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1882 AND 1904 WERE 1130 AND 586 m³/s RESPECTIVELY

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	42.5 ON MAY 3	---	---	1913
1914	---	30.9 ON APR 26	0 B ON FEB 1 *	134 000	1914
1915	---	8.44 ON APR 14	0 B ON JAN 1	27 100	1915
1916	---	173 ON APR 19	0 B ON FEB 1	538 000	1916
1917	---	43.0 ON APR 16	0 B ON JAN 1	198 000	1917
1918	---	21.7 ON APR 7	0 B ON JAN 1	74 000	1918
1919	---	57.8 B ON APR 7	0 B ON FEB 1	210 000	1919
1920	---	79.3 ON APR 27	0 B ON JAN 1	---	1920
1921	---	19.7 ON APR 19	---	---	1921
1922	---	57.5 ON APR 12	0 B ON MAR 1	---	1922
1923	---	187 ON APR 16	---	---	1923
1924	---	---	---	---	1924
1925	---	85.0 E ON APR 3	---	---	1925
1926	---	14.5 ON APR 20	---	---	1926
1927	---	83.8 ON JUN 8	---	---	1927
1928	---	85.1 B ON MAR 30	---	---	1928
1929	---	36.5 B ON APR 15	---	---	1929
1930	---	75.9 B ON APR 5	---	---	1930
1931	---	3.68 ON APR 11	0 B ON APR 1	---	1931
1932	---	7.85 ON APR 15	0 B ON JAN 1	---	1932
1933	---	51.0 B ON MAR 31	0 B ON MAR 1	---	1933
1934	---	32.6 B ON APR 7	0 B ON APR 1	---	1934
1935	---	39.9 ON JUL 3	0 ON JAN 1	---	1935
1936	---	68.0 B ON APR 13	0 B ON JAN 1	71 900	1936
1937	---	1.87 ON APR 16	0 ON JAN 1	4 230	1937
1938	---	34.0 B ON MAR 20	0 ON JAN 1	19 200	1938
1939	---	36.2 ON APR 3	0 ON JAN 1	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	57.8 ON MAY 15	---	---	1943
1944	---	42.2 ON JUL 18	0 B ON APR 1	---	1944
1945	---	30.6 ON APR 11	---	---	1945
1946	---	50.1 ON APR 7	---	---	1946
1947	---	57.2 ON APR 17	---	---	1947
1948	---	117 ON MAY 9	---	---	1948
1949	---	234 B ON APR 11	---	---	1949
1950	---	107 ON MAY 11	---	---	1950
1951	---	123 ON APR 28	---	---	1951
1952	---	38.5 ON MAY 2	0 ON OCT 8	---	1952
1953	---	35.7 ON AUG 18	---	---	1953
1954	---	53.2 ON JUL 26	2.85 B ON FEB 2	485 000	1954
1955	---	116 ON APR 21	1.13 B ON DEC 31	997 000	1955
1956	---	205 B ON APR 15	0.311B ON MAR 23	746 000	1956
1957	---	24.1 B ON MAR 23	0.198B ON FEB 2	155 000	1957
1958	---	31.1 ON APR 8	0.003B ON DEC 15	82 900	1958
1959	---	14.2 B ON MAR 27	0.003B ON JAN 1	39 200	1959
1960	263 AT 08 00 CST ON APR 12	228 ON APR 12	0.184B ON DEC 1	400 000	1960
1961	7.14 AT 19 00 CST ON APR 7	5.61 ON APR 7	0.003 ON AUG 11	17 300	1961
1962	---	85.1 B ON APR 18	0 B ON NOV 11	48 200	1962
1963	15.3 AT 23 00 CST ON JUN 29	14.2 ON JUN 30	0 B ON JAN 26	48 300	1963
1964	---	31.7 B ON APR 16	0.017B ON JAN 20	110 000	1964
1965	80.3 AT 02 30 CST ON JUL 22	75.3 B ON APR 12	0.020B ON MAR 6	233 000	1965
1966	---	77.6 B ON MAR 21	0.034B ON DEC 10	281 000	1966
1967	---	25.4 ON APR 21	0 ON SEP 8	108 000	1967
1968	8.13 AT 12 10 CST ON SEP 14	8.07 ON SEP 14	0 B ON FEB 18	61 900	1968
1969	326 AT 12 00 CST ON APR 22	323 ON APR 22	0.227B ON APR 5	1 220 000	1969
1970	143 AT 22 07 CST ON APR 26	130 ON APR 26	0.476B ON DEC 31	745 000	1970
1971	69.7 AT 13 15 CST ON APR 18	50.7 ON APR 16	0.351B ON FEB 13	329 000	1971
1972	99.4 AT 24 00 CST ON APR 30	99.4 ON APR 30	0.510B ON DEC 21	542 000	1972
1973	11.9 AT 13 53 CST ON MAY 27	11.8 ON MAY 27	0.405B ON JAN 10	77 200	1973
1974	---	345 A ON APR 19	0.345B ON JAN 21	1 250 000	1974
1975	259 AT 00 35 CST ON MAY 12	259 ON MAY 12	0.804B ON FEB 10	1 840 000	1975
1976	765 B AT 00 00 CST ON APR 11 *	742 B ON APR 11 *	1.45 ON DEC 3	2 580 000	1976
1977	4.45 AT 22 30 CST ON MAY 4	3.23 ON MAY 5	0.153B ON NOV 26	37 500	1977
1978	48.7 AT 09 34 CST ON APR 8	41.3 ON APR 8	0.173B ON DEC 11	159 000	1978
1979	185 AT 04 30 CST ON MAY 26	181 ON MAY 26	0.225B ON DEC 14	882 000	1979
1980	12.3 AT 16 00 CST ON APR 8	10.7 B ON APR 7	0.082B ON JAN 5	88 000	1980
1981	14.5 AT 15 35 CST ON MAR 18	12.0 B ON MAR 18	0.207B ON DEC 31	96 500	1981
1982	125 B AT 02 40 CST ON APR 15	116 B ON APR 15	0.082B ON FEB 19	407 000	1982
1983	143 B AT 20 17 CST ON APR 7	121 B ON APR 9	0.593B ON DEC 26	803 000	1983
1984	28.8 AT 07 27 CST ON JUN 3	28.7 ON JUN 3	0.208B ON JAN 25	172 000	1984
1985	144 B AT 01 30 CST ON MAR 26	136 B ON MAR 26	0.183B ON FEB 24	238 000	1985
1986	85.0 AT 06 36 CST ON MAY 7	80.8 ON MAY 7	0.613 ON SEP 9	234 000	1986
				391 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR COULTER - STATION NO. 05NF015

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.570	0.024	0.112	0.468	0.418	0.483	0.507	0.455	0.485	0.885	---	1977
1978	0.800	0.564	0.380	17.8	7.71	1.83	6.14	7.08	4.47	0.802	0.593	0.582	4.02	1978
1979	0.715	1.35	4.28	23.9	161	104	28.5	5.40	0.855	0.678	0.185	0.003	27.8	1979
1980	0.169	1.18	0.851	3.84	4.38	1.07	0.988	1.12	1.30	3.57	2.88	2.15	1.95	1980
1981	1.16	0.863	4.54	7.38	3.73	4.67	1.82	1.21	1.11	1.00	0.825	0.071	2.37	1981
1982	0	0	0	27.7	50.5	17.8	3.30	3.86	4.79	8.94	8.00	1.70	10.4	1982
1983	1.61	3.19	20.8	67.4	50.1	8.44	6.10	5.10	13.4	6.54	3.46	0.893	15.4	1983
1984	0.727	0.889	4.20	3.70	24.2	13.2	4.04	2.40	1.43	1.52	2.08	0.841	4.95	1984
1985	0.252	0.158	6.23	8.56	14.2	7.85	1.60	0.933	0.749	2.63	1.35	1.38	3.85	1985
1986	1.20	0.887	1.89	13.8	17.3	4.52	1.16	1.18	1.75	5.58	1.39	0.708	4.30	1986
MEAN	0.715	1.02	4.39	17.4	33.3	18.2	5.41	2.86	3.04	2.95	2.13	0.879	8.34	MEAN

LOCATION - LAT 49 05 27 N DRAINAGE AREA 43 200 km²
LONG 100 57 12 W REGULATED

SOURIS RIVER NEAR COULTER - STATION NO. 05NF015

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	1.618 ON MAR 14	---	---	1977
1978	32.0 AT 11:41 CST ON APR 28	31.4 ON APR 28	0.2418 ON MAR 10	127 000	1978
1979	204 AT 13:30 CST ON MAY 21 *	196 ON MAY 21 *	0 B ON DEC 17 *	876 000	1979
1980	7.96 AT 17:18 CST ON APR 29	7.43 ON APR 25	0 B ON JAN 1	81 700	1980
1981	11.3 AT 01:16 CST ON MAR 13	10.8 B ON MAR 13	0 B ON DEC 24	74 800	1981
1982	67.0 AT 10:27 CST ON APR 29	65.7 ON APR 29	0 B ON JAN 1	328 000	1982
1983	76.4 AT 12:21 CST ON MAY 4	75.5 ON MAY 4	0.335 ON OCT 19	487 000	1983
1984	29.7 AT 08:57 CST ON MAY 30	29.5 ON MAY 30	0.105 ON APR 26	155 000	1984
1985	18.4 B AT 10:17 CST ON APR 27	17.9 ON APR 27	0.0028 ON FEB 14	122 000	1985
1986	22.1 AT 17:53 CST ON MAY 9	19.5 ON MAY 9	0.1248 ON MAR 24	136 000	1986
				283 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	17.5	73.4	57.0	9.33	5.34	4.70	12.2	5.72	---	---	23.2	1983
1984	---	---	3.56	4.46	22.3	14.6	3.34	2.23	1.41	2.12	---	---	8.76	1984
1985	---	---	12.7	13.5	14.9	8.98	1.22	2.87	3.69	4.70	---	---	7.80	1985
1986	---	---	9.19	15.6	23.4	5.68	2.01	2.09	1.40	5.20	---	---	8.08	1986
MEAN	---	---	10.7	26.7	29.4	9.65	3.23	2.97	4.68	4.44	---	---	11.5	MEAN

LOCATION - LAT 49 24 00 N DRAINAGE AREA 51 700 km²
LONG 100 45 37 W REGULATED

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	81.1 AT 05:16 CST ON APR 11 *	90.6 ON APR 11 *	0.500 ON OCT 23	491 000	1983
1984	27.2 AT 11:34 CST ON MAY 31	27.0 ON MAY 31	0.835 ON MAY 1	143 000	1984
1985	42.28 AT 20:26 CST ON MAR 25	40.08 ON MAR 26	0.4508 ON MAR 1 *	185 000	1985
1986	28.5 AT 10:14 CST ON MAY 19	28.5 ON MAY 19	0.5898 ON MAR 2	171 000	1986
				243 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR MELITA - STATION NO. 05NF009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	0.005	0.047	0.025	4.53	1.54	0.677	0.585	0.555	---	---	0.888	1983
1985	---	---	0.028	3.61	11.8	17.8	5.30	5.11	7.34	5.18	---	---	7.25	1985
1986	---	---	4.76	18.7	24.9	5.77	1.94	1.01	0.543	0.585	---	---	7.26	1986
1987	---	---	0.131	9.63	14.0	3.24	0.854	0.486	0.470	0.733	---	---	3.66	1987
1988	---	---	0.310	0.233	0.148	0.422	0.421	0.829	5.23	5.09	---	---	1.70	1988
1989	---	---	0.172	139	138	51.0	15.0	14.8	1.24	0.866	---	---	44.7	1989
1970	---	---	1.05	19.8	64.9	80.1	36.9	10.2	0.228	0.406	---	---	26.6	1970
1971	---	---	1.56	22.7	38.4	11.8	5.46	8.71	1.51	2.91	---	---	12.1	1971
1972	---	---	17.0	77.7	55.9	23.5	17.6	3.27	2.86	3.98	---	---	25.1	1972
1973	---	---	1.32	0.570	5.44	1.75	3.70	1.07	2.21	3.26	---	---	2.43	1973
1974	---	---	2.35	89.1	137	100	27.7	3.39	2.14	1.78	---	---	45.2	1974
1975	---	---	---	---	---	---	---	10.9	5.16	21.0	---	---	---	1975
1976	---	---	12.5	358	212	73.8	25.5	16.7	8.79	1.78	---	---	87.9	1976
1977	---	---	0.855	0.186	0.040	0.480	0.534	0.508	0.585	0.490	---	---	0.480	1977
1978	---	---	0.429	16.9	8.21	1.85	6.06	6.41	3.57	0.743	---	---	5.47	1978
MEAN	---	---	3.03	54.0	50.8	25.8	10.9	5.87	2.90	3.36	---	---	19.3	MEAN

LOCATION - LAT. 49 10 20 N DRAINAGE AREA 48 100 km²
LONG 101 01 48 W REGULATED

SOURIS RIVER NEAR MELITA - STATION NO. 05NF009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1983	13.8 AT 02 45 CST ON JUN 25	13.4 ON JUN 25	0 ON MAR 1 *	20 800	1983
1985	23.8 AT 17 30 CST ON JUN 26	23.7 ON JUN 26	0.0288 ON MAR 1	153 000	1985
1986	---	30.6 A ON MAY 4	0.255 ON OCT 31	184 000	1986
1987	24.9 AT 18 30 CST ON APR 19	24.3 ON APR 19	0 B ON MAR 1	77 400	1987
1988	---	7.53 ON SEP 9	0 A ON APR 22	36 100	1988
1989	---	306 A ON APR 17	0.0288 ON MAR 16	947 000	1989
1970	95.1 AT 23 51 CST ON JUN 7	94.3 ON JUN 5	0.008 ON OCT 5	584 000	1970
1971	---	44.7 A ON MAY 6	1.06 ON OCT 8	257 000	1971
1972	105 AT 17 07 CST ON APR 21 *	104 ON APR 21	1.42 B ON MAR 1	532 000	1972
1973	11.8 AT 08 07 CST ON MAY 24	11.7 ON MAY 23	0.467 ON APR 17	51 400	1973
1974	---	251 A ON APR 25	0.487 ON OCT 22	958 000	1974
1975	---	---	---	---	1975
1976	---	510 B ON APR 12 *	0.142 ON OCT 19	1 860 000	1976
1977	---	1.618 ON MAR 14	0.007E ON MAY 3	9 740	1977
1978	26.5 AT 17 05 CST ON APR 26	26.3 ON APR 26	0.3348 ON MAR 10	116 000	1978
				410 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR WESTHOPE - STATION NO 05NF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1929	---	---	---	---	---	---	---	0.380	0.185	0.234	---	---	---	1929
1930	---	---	---	26.1	11.0	2.87	1.16	0.154	0.245	0.314	0.429	0.142	---	1930
1931	0.014	0.014	0.028	1.66	0.836	0.136	0.083	0	0	0.149	0.224	0.057	0.247	1931
1932	0.028	0.028	0.148	2.09	1.71	0.744	0.356	0.059	0	0	0.239	0.057	0.454	1932
1933	0.028	0.028	3.97	24.8	8.21	5.15	5.82	1.56	0.291	0.174	0.397	0.085	4.05	1933
1934	0.028	0.028	2.02	8.33	1.59	0.131	0.022	0	0	0	0	0	1.01	1934
1935	0	0	0.156	1.57	2.13	0.506	4.81	1.94	0.222	0.009	0	0	0.844	1935
1936	0	0	0	0.909	0	0.218	0.104	0	0	0	0	0	0.101	1936
1937	0	0	0	0.052	0	0	0	0	0	0	0	0	0.004	1937
1938	0	0	0.004	0.001	0	0.211	0	0.222	0.008	0	0	0	0.037	1938
1939	0	0	0.001	0.006	0	0.238	0	0.130	0.034	0.280	0	0	0.059	1939
1940	0	0	0	0.007	0.028	0.020	0.087	0.073	0.089	0.084	0.001	0	0.029	1940
1941	0	0	0	0	0.003	0.180	0.207	0.328	0.487	0.244	0.018	0	0.121	1941
1942	0	0	0.017	11.6	7.15	0.727	0.521	0.793	0.860	0.712	0.027	0	1.85	1942
1943	0	0	0.004	17.4	59.6	33.2	23.4	3.39	2.42	1.40	0.339	0.004	11.9	1943
1944	0	0.167	0.649	5.26	7.54	8.33	36.8	3.48	9.70	2.87	1.90	3.98	8.73	1944
1945	3.32	2.04	4.45	21.4	4.76	0.741	0.640	2.52	0.518	0.532	0.018	0	3.39	1945
1946	0	0	0.056	9.09	0.587	0.545	0.444	0.585	1.80	0.341	0.015	0	1.12	1946
1947	0.008	0.029	0.029	28.5	19.2	5.52	10.8	8.11	2.08	0.303	0.287	0.023	6.34	1947
1948	0.017	0.006	0.013	25.2	62.1	48.0	9.63	7.01	1.21	0.585	1.33	1.89	13.1	1948
1949	0.913	0.381	0.213	91.3	41.2	17.3	1.12	1.12	0.918	0.335	0.028	0.036	12.9	1949
1950	0.071	0.085	0.174	20.8	56.6	37.0	10.5	4.23	1.76	0.780	0.377	1.34	11.4	1950
1951	3.43	4.89	2.76	52.2	70.6	43.0	6.81	0.754	4.12	2.07	1.85	4.59	16.4	1951
1952	1.11	0.788	3.36	22.2	15.3	0.278	2.86	2.16	0.387	0.096	0.597	1.21	4.19	1952
1953	0.476	0.387	0.705	5.20	13.3	22.5	34.3	28.7	4.09	4.40	5.00	2.98	10.3	1953
1954	3.97	3.83	4.32	9.84	8.76	22.3	44.2	11.0	2.02	12.7	5.17	2.85	10.8	1954
1955	1.82	1.86	2.03	59.8	57.4	42.4	17.5	7.85	3.45	3.75	0.207	0.078	18.5	1955
1956	0.356	0.425	1.49	29.1	87.5	28.9	9.83	4.60	3.89	3.22	5.28	1.56	13.0	1956
1957	1.27	0.785	1.07	0.500	3.94	5.32	2.05	0.749	0.855	0.832	3.33	1.45	1.81	1957
1958	0.501	0.400	0.011	0.158	1.76	2.43	0.931	0.813	0.804	0.417	0.029	0.003	0.875	1958
1959	0.003	0.001	0.027	0.008	0.021	0.704	0.681	0.543	0.485	0.571	1.82	0.414	0.438	1959
1960	0.562	0.587	1.85	46.2	23.9	12.8	0.585	0.388	0.936	0.568	0.145	0.059	7.32	1960
1961	0.002	0.014	0.154	0.150	0.282	0.585	0.544	0.303	0.276	0.314	0.098	0.029	0.231	1961
1962	0	0	0	0.055	0.140	0.136	0.185	0.294	0.294	0.480	0.010	0.003	0.134	1962
1963	0.003	0.003	0.008	0.003	0.011	4.55	1.22	0.614	0.576	0.854	0.041	0	0.838	1963
1964	0	0	0.003	0.011	4.02	1.25	2.99	0.482	2.81	2.34	0.008	0.003	1.17	1964
1965	0.002	0.003	0.003	0.423	10.2	17.6	4.73	5.58	7.59	5.78	2.00	1.37	4.70	1965
1966	1.38	1.17	3.00	13.4	21.9	4.93	2.03	1.11	0.838	0.825	0.194	0.003	4.22	1966
1967	0.001	0	0.007	9.48	13.4	2.58	0.729	0.840	0.500	0.713	0.040	0.002	2.35	1967
1968	0	0	0.006	0.010	0.160	0.588	0.558	0.826	5.81	3.41	0.888	0.837	1.05	1968
1969	0.371	0.109	0.172	91.8	128	50.8	11.0	14.2	0.958	0.881	0.704	2.18	25.2	1969
1970	2.46	1.61	1.22	14.2	88.4	77.2	33.7	8.99	0.588	0.585	0.334	0.093	17.3	1970
1971	0.859	1.62	1.57	18.9	32.5	9.44	9.82	8.43	0.949	2.87	6.25	2.77	8.13	1971
1972	2.18	1.67	8.78	67.5	45.6	21.2	16.7	2.79	2.71	4.23	8.39	0.641	15.0	1972
1973	0.526	1.23	0.743	0.130	5.83	1.28	3.84	0.915	2.30	2.96	0.885	0.872	1.78	1973
1974	0.651	1.63	2.57	68.6	121	91.6	22.0	2.87	2.12	1.87	2.90	0.552	28.6	1974
1975	0.824	0.845	1.03	29.8	156	119	47.6	6.74	2.50	13.4	10.2	5.88	32.9	1975
1976	5.41	5.38	12.5	251	169	62.9	22.1	14.9	6.46	1.13	0.888	1.47	45.8	1976
1977	1.11	0.825	0.580	0.018	0.005	0.808	0.595	0.589	0.593	0.585	0.528	0.732	0.582	1977
1978	0.686	0.744	0.476	16.3	8.49	1.80	6.09	5.20	3.79	0.799	0.812	0.958	3.84	1978
1979	1.05	2.16	3.04	22.6	141	89.8	23.1	4.35	0.884	0.811	0.179	0.017	24.2	1979
1980	0.202	1.15	0.883	2.82	3.58	0.899	0.766	0.774	1.23	3.30	3.17	2.07	1.70	1980
1981	1.19	0.761	4.80	7.01	3.89	4.43	1.36	1.20	1.03	0.921	0.833	0.029	2.25	1981
1982	0	0	0	28.4	49.5	18.5	2.96	3.84	4.20	6.57	7.28	1.59	10.3	1982
1983	1.66	3.31	22.1	68.3	46.6	6.41	5.65	5.41	11.4	4.98	3.23	0.930	15.0	1983
1984	0.552	0.749	3.48	2.63	24.8	13.9	5.81	2.99	1.27	1.30	1.77	0.538	4.99	1984
1985	0.147	0.089	4.46	8.34	13.2	8.00	1.70	0.935	0.803	2.48	1.32	1.35	3.56	1985
1986	1.16	1.03	1.51	12.6	18.5	4.99	1.15	1.17	5.34	1.28	0.718	4.28		1986
MEAN	0.718	0.783	1.82	22.0	28.5	15.8	7.97	3.30	1.84	1.84	1.43	0.838	7.42	MEAN

LOCATION - LAT 48 59 47 N LONG 100 57 29 W DRAINAGE AREA 42 900 km² REGULATED INTERNATIONAL GAUGING STATION

SOURIS RIVER NEAR WESTHOPE · STATION NO. 05NF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	3.36 B ON APR 6	0 ON JUL 20 *	7 790	1931
1932	---	4.19 ON MAY 4	0 ON AUG 17	14 400	1932
1933	---	32.0 ON APR 17	0.0288 ON JAN 1	128 000	1933
1934	---	14.8 ON APR 7	0 ON JUL 27	31 800	1934
1935	---	7.90 ON JUL 7	0 ON JAN 1	29 800	1935
1936	---	3.84 ON APR 14	0 ON JAN 1	3 200	1936
1937	---	0.255 ON APR 11	0 ON JAN 1	136	1937
1938	1.44 AT 12:00 CST ON JUN 18	1.19 ON JUN 18	0 ON JAN 1	1 180	1938
1939	0.821 ON OCT 23	0.785 ON OCT 21	0 ON JAN 1	1 850	1939
1940	---	0.396 ON OCT 13	0 ON JAN 1	935	1940
1941	1.02 AT 08:00 CST ON JUN 12	0.706 ON SEP 8	0 ON JAN 1	3 820	1941
1942	31.1 AT 18:30 CST ON APR 21	26.3 ON APR 22	0 8 ON JAN 1	58 300	1942
1943	---	83.4 ON MAY 22	0 ON JAN 1	374 000	1943
1944	---	56.6 ON JUL 9	0 8 ON JAN 6	213 000	1944
1945	---	29.4 ON MAR 31	0 8 ON NOV 16	107 000	1945
1946	---	17.0 ON APR 8	0 8 ON JAN 1	35 400	1946
1947	---	51.0 ON APR 19	0 ON JAN 1	200 000	1947
1948	---	82.1 ON APR 26	0 ON JAN 17	414 000	1948
1949	181 ON APR 18	176 ON APR 18	0.028 ON NOV 1	405 000	1949
1950	75.0 AT 22:00 CST ON MAY 17	74.5 ON MAY 17	0.0578 ON JAN 1	358 000	1950
1951	---	87.8 ON APR 29	0.054 ON NOV 7	518 000	1951
1952	---	40.2 ON APR 24	0.054 ON OCT 31	132 000	1952
1953	43.9 AT 13:00 CST ON AUG 13	43.6 ON AUG 13	0.085E ON SEP 18	324 000	1953
1954	50.4 AT 13:00 CST ON JUL 13	49.8 ON JUL 14	0.623 ON SEP 21	341 000	1954
1955	99.1 AT 20:00 CST ON APR 14	97.1 ON APR 14	0.023E ON DEC 6	523 000	1955
1956	86.1 AT 23:00 CST ON MAY 21	83.0 ON MAY 22	0.227E ON JAN 1	412 000	1956
1957	---	7.59 ON JUN 14	0.099 ON APR 21	57 100	1957
1958	15.8 AT 15:00 CST ON MAY 12	5.72 ON MAY 12	0 ON MAR 6	21 300	1958
1959	5.30 ON JUN 3	5.30 ON NOV 6	0.001E ON FEB 1	13 800	1959
1960	60.0 AT 09:00 CST ON APR 23	57.8 ON APR 23	0 ON DEC 26	232 000	1960
1961	---	0.736 ON JUN 2	0 ON JAN 1	7 300	1961
1962	5.89 AT 10:30 CST ON AUG 7	0.850 ON OCT 17	0 ON JAN 1	4 240	1962
1963	17.0 AT 11:30 CST ON JUN 24	15.0 ON JUN 23	0 ON MAR 6	20 100	1963
1964	---	14.7 ON MAY 16	0 ON JAN 1	37 000	1964
1965	24.5 AT 17:00 CST ON JUN 26	24.1 ON JUN 27	0 ON JAN 11	148 000	1965
1966	24.1 AT 03:00 CST ON MAY 2	24.0 ON MAY 3	0.001 ON DEC 17	133 000	1966
1967	28.2 AT 19:00 CST ON APR 20	24.2 ON APR 20	0 ON JAN 31	74 200	1967
1968	8.27 AT 09:00 CST ON SEP 8	7.84 ON SEP 8	0 ON JAN 1	33 000	1968
1969	178 AT 14:00 CST ON APR 22	176 ON APR 22	0.028 ON MAR 16	784 000	1969
1970	88.3 AT 07:00 CST ON JUN 6	88.1 ON JUN 6	0.045 ON DEC 1	547 000	1970
1971	38.2 AT 02:00 CST ON APR 30	37.9 ON APR 30	0.048 ON JAN 1	257 000	1971
1972	86.7 ON APR 20	86.4 ON APR 17	0.510 ON DEC 12	474 000	1972
1973	12.6 ON MAY 20	12.4 ON MAY 20	0.011 ON APR 4	56 100	1973
1974	159 AT 21:00 CST ON APR 25	158 ON APR 25	0.536 ON DEC 4	837 000	1974
1975	190 AT 07:00 CST ON MAY 7	187 ON MAY 7	0.453 ON SEP 7	1 040 000	1975
1976	357 AT 18:00 CST ON APR 26 *	351 ON APR 26 *	0.037 ON OCT 15	1 450 000	1976
1977	---	1.56 B ON MAR 13	0.003 ON APR 18	17 700	1977
1978	24.0 AT 17:30 CST ON APR 22	22.0 ON APR 22	0.2838 ON MAR 9	121 000	1978
1979	187 AT 21:00 CST ON MAY 21	185 ON MAY 21	0.009 ON NOV 14	765 000	1979
1980	8.04 AT 17:00 CST ON APR 24	7.08 ON APR 29	0.0258 ON JAN 14	53 800	1980
1981	---	8.34 ON APR 24	0 ON DEC 9	71 100	1981
1982	---	67.1 ON APR 24	0 8 ON JAN 1	325 000	1982
1983	76.5 ON APR 13	76.5 ON APR 14	0.139 ON OCT 19	473 000	1983
1984	31.1 ON MAY 30	31.1 ON MAY 30	0.127 ON APR 25	158 000	1984
1985	---	17.8 ON APR 27	0.028 ON FEB 7	112 000	1985
1986	25.6 AT 19:15 CST ON MAY 5	22.3 ON MAY 5	0.0578 ON MAR 14	135 000	1986
				234 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH SEAL RIVER ABOVE FOX LAKE · STATION NO. 05GA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	---	---	---	---	---	---	---	57.8	50.3	32.5	---	1985
1986	---	---	---	24.4	177	380	175	88.5	50.0	27.4	25.6	24.0	---	1986
1987	21.1	16.4	12.3	---	---	---	203	93.8	51.7	---	---	---	---	1987
1988	---	14.3	14.9	---	---	---	134	77.8	93.4	126	95.6	63.9	---	1988
1989	38.2	23.4	21.3	21.8	30.5	67.9	69.1	61.8	270	173	98.8	48.8	77.2	1989
1970	32.8	21.0	18.7	22.0	88.0	195	97.1	83.1	82.0	94.7	138	75.0	80.9	1970
1971	37.2	28.1	21.3	---	---	160	289	220	248	242	180	104	---	1971
1972	53.8	31.1	24.3	23.4	205	234	193	129	127	115	88.5	62.4	108	1972
1973	38.8	29.4	25.1	20.7	147	118	76.0	47.4	37.0	35.0	32.8	24.6	62.9	1973
1974	19.6	17.0	15.0	---	---	---	88.5	127	110	77.5	54.4	40.7	---	1974
1975	31.8	21.1	15.9	25.6	---	---	294	233	149	112	79.8	49.6	---	1975
1976	32.6	25.4	22.2	27.7	161	170	115	71.8	137	132	96.9	61.7	87.9	1976
1977	39.6	30.0	27.5	81.6	213	230	232	172	124	91.3	52.7	26.1	111	1977
1978	18.8	18.6	18.6	18.6	---	---	129	216	279	205	106	53.1	---	1978
1979	27.6	16.0	10.6	10.8	---	---	82.1	72.3	72.8	94.4	62.9	38.6	---	1979
1980	24.6	16.7	13.0	30.6	122	175	123	279	341	192	107	60.8	123	1980
1981	26.3	25.9	24.9	24.6	126	148	72.0	36.0	37.4	38.8	35.3	19.8	51.3	1981
1982	12.7	10.0	8.74	8.77	143	198	105	63.0	78.0	61.4	36.7	27.0	63.1	1982
1983	23.0	18.6	15.0	12.7	19.5	---	164	122	357	258	128	64.3	---	1983
1984	45.6	33.8	23.5	76.8	216	186	110	85.7	121	79.3R	51.8R	34.7R	89.0R	1984
1985	24.8	20.6	19.0	17.9	73.7	186	78.7	53.1	43.7	35.8	22.2	13.0	49.1	1985
1986	14.3	11.9	10.6	10.0	---	---	280	207	132	80.3	49.6	35.7	---	1986
MEAN	29.7	21.5	18.1	27.1	133	187	148	121	141	111 R	76.0R	45.4R	81.2	MEAN

LOCATION - LAT 58 08 35 N
LONG 98 13 40 W
DRAINAGE AREA, 13 000 km^2
NATURAL FLOW

R - REVISED SINCE JAN 1986

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO 06GA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	---	---	---	
1966	---	---	---	---	1965
1967	---	532 ON JUN 3 *	---	---	1966
1968	---	---	---	---	1967
1969	---	---	---	---	1968
	---	323 ON SEP 7	21 0 B ON FEB 28	2 430 000	1969
1970	---	---	---	---	
1971	374 AT 18 07 CST ON JUL 13	244 ON JUN 5	16 7 B ON MAR 3	2 550 000	1970
1972	337 AT 18 17 CST ON MAY 16	371 ON JUL 14	---	---	1971
1973	236 AT 17 30 CST ON MAY 14	328 ON MAY 18	21 5 B ON APR 11	3 400 000	1972
1974	---	226 ON MAY 14	17 4 B ON APR 29	1 870 000	1973
		---	---	---	1974
1975	362 AT 18 03 CST ON JUL 3	350 ON JUL 3	15 2 B ON MAR 21	---	1975
1976	234 AT 13 00 CST ON MAY 21	232 ON MAY 21	21 9 B ON MAR 18	2 780 000	1976
1977	278 AT 17 36 CST ON JUL 24	276 ON JUL 22	19 9 B ON DEC 31	3 490 000	1977
1978	365 AT 14 12 CST ON AUG 25	350 ON AUG 24	18 6 B ON JAN 13	---	1978
1979	---	---	9 548 ON APR 1	---	1979
1980	504 AT 17 20 CST ON AUG 29 *	500 ON AUG 29	12 5 B ON MAR 23	3 880 000	1980
1981	245 AT 18 17 CST ON MAY 23	243 ON MAY 23	15 2 B ON DEC 31	1 820 000	1981
1982	235 AT 14 10 CST ON JUN 13	230 ON JUN 14	8 488 ON MAR 25 *	1 990 000	1982
1983	---	---	11 0 B ON MAY 12	---	1983
1984	312 ON APR 29	304 ON APR 29	15 4 B ON APR 10	2 810 000R	1984
1985	---	---	---	---	
1986	---	243E ON JUN 4	9 808 ON DEC 31	1 550 000	1985
		---	9 988 ON APR 8	---	1986
				2 580 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO 05OF017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	0 040	0	0	0	---	---	---	1963
1964	---	---	0	0 834	0 062	0 030	0 027	0 033	0 385	0 039	---	---	0 146	1964
1965	---	---	0	1 17	0 414	0 080	0 023	0	0 010	0 007	---	---	0 211	1965
1966	---	---	0 780	0 784	0 729	0 054	0 189	0 009	0	0	---	---	0 316	1966
1967	---	---	0 300	1 46	0 286	0 022	0 080	0	0	0	---	---	0 285	1967
1968	---	---	0 098	0 070	0 430	0 051	0 843	1 45	0 306	0 156	---	---	0 403	1968
1969	---	---	0	2 20	0 254	0 485	0 415	0 046	0 003	0 011	---	---	0 419	1969
1970	---	---	0	2 85	1 67	0 129	0 018	0	0	0	---	---	0 554	1970
1971	---	---	0	1 58	0 105	0 177	0 159	0 001	0 135	0 304	---	---	0 304	1971
1972	---	---	0 837	1 38	0 208	0 026	0 007	0 001	0	0	---	---	0 305	1972
1973	---	---	0 119	0 025	0 004	0 007	0 016	0 001	0	0	---	---	0 022	1973
1974	---	---	0	2 58	1 63	0 121	0 004	0	0	0	---	---	0 535	1974
1975	---	---	0	0 575	0 183	0 285	0 027	0	0	0	---	---	0 131	1975
1976	---	---	0 046	1 72	0 073	0 004	0	0	0	0	---	---	0 228	1976
1977	---	---	0	0 006	0 092	0 010	0	0	0 108	0 008	---	---	0 028	1977
1978	---	---	0 047	1 27	0 321	0 177	0 126	0	0 034	0 005	---	---	0 245	1978
1979	---	---	0	3 62	1 21	0 255	0 029	0 007	0	0	---	---	0 808	1979
1980	---	---	0	0 303	0 002	0	0	0	0	0	---	---	0 037	1980
1981	---	0 059	0 047	0 010	0 010	0 013	0 001	0 012	0	0	---	---	0 012	1981
1982	---	---	0 112	0 302	0 024	0 004	0	0	0	0 008	---	---	0 056	1982
1983	---	---	0 421	0 841	0 031	0 048	0 003	0	0	0	---	---	0 167	1983
1984	---	---	0 105	0 051	0 081	0 127	0 002	0	0	0 002	---	---	0 047	1984
1985	---	---	0 611	0 304	0 088	0 084	0 019	0 778	0 033	0 213	---	---	0 285	1985
1986	---	---	1 55	0 983	1 20	0 068	0 112	0 004	0	0	---	---	0 495	1986
MEAN	---	0 059	0 215	1 05	0 398	0 087	0 081	0 088	0 041	0 031	---	---	0 252	MEAN

LOCATION - LAT 49 22 50 N
LONG 98 14 55 W
DRAINAGE AREA 72 0 km^2
NATURAL FLOW

REMARKS - FORMERLY PUBLISHED UNDER STA NO 05OB028 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE 516 AND 0 M3/S OCCURRED IN FEB

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05OF017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	0 ON JUL 31 *	---	1963
1964	13.1 ON SEP 1	5.47 ON SEP 1	0 ON MAR 1	3 100	1964
1965	---	7.93 B ON APR 13	0B ON MAR 1	4 470	1965
1966	14.8 AT 01:30 CST ON MAY 6	8.35 ON MAY 5	0B ON MAR 1	6 690	1966
1967	24.4 AT 15:00 CST ON APR 20	15.0 ON APR 20	0B ON MAR 1	5 400	1967
1968	24.6 AT 07:30 CST ON AUG 24	18.6 ON AUG 24	0B ON MAR 1	8 530	1968
1969	---	10.3 B ON APR 12	0B ON MAR 1	8 860	1969
1970	13.4 AT 03:50 CST ON APR 29	12.8 ON APR 29	0 ON MAR 1	11 700	1970
1971	---	11.4 B ON APR 8	0 ON MAR 1	6 420	1971
1972	---	6.06 B ON APR 9	0B ON MAR 1	6 450	1972
1973	---	0.255B ON MAR 11	0B ON MAR 1	459	1973
1974	17.9 AT 01:12 CST ON MAY 21	14.9 ON APR 17	0B ON MAR 1	11 300	1974
1975	14.2 AT 14:20 CST ON JUN 28	4.11 ON JUN 28	0B ON MAR 1	2 770	1975
1976	9.84 AT 23:27 CST ON APR 4	6.20 ON APR 5	0B ON MAR 1	4 780	1976
1977	1.70 AT 06:05 CST ON MAY 18	0.923 ON MAY 18	0 ON MAR 1	588	1977
1975	11.6 AT 02:25 CST ON MAY 25	8.55 ON APR 6	0B ON MAR 1	5 190	1978
1979	---	28.0 E ON APR 19 *	0B ON MAR 1	12 900	1979
1980	2.05 AT 23:39 CST ON APR 6	1.50 ON APR 5	0B ON MAR 1	791	1980
1981	1.30 AT 06:45 CST ON JUN 24	0.267E ON MAR 15	0 ON MAR 1	249	1981
1982	3.62 AT 23:07 CST ON APR 11	2.43 ON APR 12	0B ON MAR 1	1 180	1982
1983	11.2 AT 20:57 CST ON MAR 30	4.46 ON APR 7	0B ON MAR 1	3 530	1983
1984	3.60 AT 03:30 CST ON JUN 22	1.09 ON JUN 22	0B ON MAR 1	994	1984
1985	23.5 AT 08:05 CST ON AUG 17	15.0 ON AUG 17	0B ON MAR 1	5 620	1985
1986	28.5 AT 04:08 CST ON MAY 5 *	16.9 ON MAY 5	0B ON MAR 1	10 500	1986
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 330	MEAN

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.823	0.038	0.020	---	---	---	---	---	---	---	1964
1965	---	---	0	1.55	0.818	0.140	0.106	0	0.028	0	---	---	0.302	1965
1966	---	---	0.401	1.32	1.27	0.048	0.892	0.037	0	0	---	---	0.496	1966
1967	---	---	0.187	1.76	0.454	0.030	0.471	0	0	0	---	---	0.381	1967
1968	---	---	0.118	0.148	0.575	0.051	0.625	2.24	0.510	0.157	---	---	0.557	1968
1969	---	---	0	4.38	0.389	0.529	1.12	0.109	0.016	0.010	---	---	0.810	1969
1970	---	---	0	5.63	2.46	0.184	0.034	0	0	0	---	---	1.03	1970
MEAN	---	---	0.101	2.20	0.829	0.140	0.541	0.398	0.092	0.028	---	---	0.593	MEAN

LOCATION - LAT 49 24 55 N DRAINAGE AREA 134 km^2
LONG 98 08 32 W NATURAL FLOW

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	0B ON MAR 1 *	---	1964
1965	---	13.8B ON APR 13	0B ON MAR 1	6 400	1965
1966	16.6 AT 04:30 CST ON MAY 5	12.0 ON MAY 5	0B ON MAR 1	10 500	1966
1967	---	17.4B ON APR 21	0B ON MAR 1	7 520	1967
1968	---	19.1 ON AUG 25	0B ON MAR 1	11 800	1968
1969	---	20.0 ON APR 11	0B ON MAR 1	17 200	1969
1970	25.6 AT 05:20 CST ON APR 25 *	21.1 ON APR 25 *	0B ON MAR 1	21 700	1970
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 500	MEAN

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	0.815	0.524	0.098	---	1928
1929	0.057	0.028	0.343	1.18	1.46	1.60	0.823	0.042	0.034	0.085	0.174	---	---	1929
1930	---	---	---	2.34	10.3	2.83	5.98	0.278	0.043	0.184	0.780	---	---	1930
1931	---	---	---	2.54	2.28	0.757	0.395	0.079	0.089	0.230	---	---	---	1931
1932	---	---	---	5.34	3.92	1.09	1.11	0.257	0.421	1.08	1.52	---	---	1932
1933	---	---	---	7.50	3.87	2.08	0.072	0.013	0.026	0.055	---	---	---	1933
1934	---	---	---	0.457	0.345	0.350	0.074	0.025	0.011	0.133	---	---	---	1934
1935	---	---	---	2.03	2.42	0.884	0.881	0.940	0.414	0.255	---	---	---	1935
1936	---	---	---	4.93	3.16	0.880	0.037	0.009	0.088	0.038	0.033	---	---	1936
1937	---	---	---	3.48	8.01	2.51	8.93	2.45	0.449	0.337	---	---	---	1937
1938	---	---	1.06	2.71	9.24	1.89	0.214	0.036	0.015	0.029	0.039	---	---	1938
1939	---	---	---	---	0.195	0.477	0.048	0.029	0.022	---	---	---	---	1939
1940	---	---	---	0.506	0.471	0.127	0.044	0.028	0.032	0.080	0.233	0.075	---	1940
1941	0.051	0.044	0.040	5.32	1.12	4.82	0.398	0.038	11.5	7.33	1.14	0.190	2.87	1941
1942	0.033	0.032	2.84	5.40	5.78	1.50	0.290	2.54	10.5	1.16	0.388	0.087	2.52	1942
1943	0.068	0.062	0.078	8.79	6.82	8.62	1.56	0.383	0.709	0.248	0.278	0.074	2.28	1943
1944	0.035	0.019	0.038	2.74	3.15	12.2	1.80	2.45	3.89	0.885	3.05	0.389	2.53	1944
1945	0.089	0.072	5.45	7.90	3.93	1.80	2.82	1.90	5.54	2.35	0.789	0.180	2.74	1945
1946	0.093	0.080	2.75	4.06	3.09	0.885	0.830	0.030	0.088	0.203	0.187	0.087	1.00	1946
1947	0.054	0.019	0.021	1.49	2.42	9.55	0.821	0.784	0.795	2.00	0.572	0.154	1.54	1947
1948	0.098	0.070	0.119	9.67	4.43	0.740	2.08	2.83	0.132	0.088	0.135	0.088	1.70	1948
1949	0.051	0.048	0.082	4.89	3.18	0.825	0.192	0.220	0.033	0.524	0.757	0.112	0.914	1949
1950	0.054	0.086	0.070	5.89	20.1	4.32	2.58	0.315	4.98	3.74	0.709	0.155	3.80	1950
1951	0.095	0.089	0.192	6.39	4.82	0.778	0.059	0.189	0.529	0.828	0.310	0.037	1.18	1951
1952	0.015	0.042	0.070	0.948	0.338	0.371	0.631	0.104	0.028	0.027	0.051	0.025	0.220	1952
1953	0.026	0.024	0.217	0.795	1.42	3.01	1.00	0.108	0.222	0.208	0.185	0.113	0.810	1953
1954	0.113	0.046	0.103	4.51	5.89	3.60	0.331	0.108	0.271	0.158	0.149	0.104	1.27	1954
1955	0.057	0.050	0.048	5.59	2.77	5.57	0.987	0.088	0.340	1.01	0.425	0.110	1.50	1955
1956	0.055	0.062	0.109	7.13	7.85	2.09	6.34	1.35	2.95	0.798	3.08	0.182	2.85	1956
1957	0.042	0.047	1.18	3.56	4.58	5.05	3.80	0.427	0.701	1.08	0.758	0.087	1.87	1957
1958	0.047	0.121	0.287	0.390	0.314	0.237	2.84	0.290	0.101	0.413	0.834	0.228	0.487	1958
1959	0.105	0.048	0.208	4.17	5.18	4.80	1.15	0.479	0.426	2.74	0.852	0.188	1.77	1959
1960	0.080	0.050	0.045	5.86	3.07	2.18	0.883	0.311	0.095	0.125	0.394	0.082	1.18	1960
1961	0.035	0.038	0.484	0.985	1.48	0.283	0.021	0.003	0.034	0.071	0.072	0.030	0.288	1961
1962	0.014	0.010	0.025	1.96	8.51	5.27	1.33	4.16	1.16	0.519	0.588	0.256	2.08	1962
1963	0.018	0.019	0.538	7.70	4.26	4.81	0.678	0.080	0.023	0.033	0.039	0.021	1.51	1963
1964	0.008	0.009	0.015	1.81	3.90	4.47	1.64	0.230	2.04	3.48	0.757	0.070	1.54	1964
1965	0.044	0.035	0.051	10.6	10.8	4.96	5.71	0.458	2.50	4.82	1.85	0.809	3.55	1965
1966	0.293	0.113	1.31	17.9	11.6	3.17	1.20	0.397	0.482	0.263	0.171	0.092	3.08	1966
1967	0.035	0.006	0.209	10.9	5.77	0.981	0.755	0.090	0.017	0.037	0.035	0.035	1.57	1967
1968	0.019	0.018	0.789	1.91	1.31	7.53	3.88	4.54	2.22	1.47	0.755	0.154	2.08	1968
1969	0.045	0.035	0.132	11.5	4.17	5.27	0.934	0.703	0.162	0.843	0.408	0.098	2.02	1969
1970	0.048	0.044	0.058	8.19	14.5	7.82	0.866	0.184	0.282	0.371	0.887	0.155	2.74	1970
1971	0.081	0.047	0.082	4.66	2.80	1.83	1.05	0.281	0.178	0.703	1.88	0.185	1.14	1971
1972	0.070	0.032	0.314	8.49	3.81	0.808	0.051	0.086	0.330	0.436	0.441	0.085	1.07	1972
1973	0.025	0.032	0.822	0.791	1.13	1.03	0.778	1.56	2.88	3.44	0.870	0.252	1.12	1973
1974	0.089	0.068	0.083	15.0	13.4	2.82	0.159	2.23	1.22	0.883	0.521	0.105	3.14	1974
1975	0.068	0.086	0.054	5.35	5.85	3.26	1.34	0.139	0.158	0.141	0.152	0.051	1.39	1975
1976	0.045	0.050	0.131	4.01	1.33	1.82	0.587	0.047	0.018	0.029	0.031	0.005	0.854	1976
1977	0.007	0.004	0.035	0.268	0.174	0.250	0.181	0.021	0.548	0.879	0.887	0.380	0.311	1977
1978	0.089	0.045	0.080	8.47	3.69	0.940	1.04	0.207	0.200	0.118	0.082	0.054	1.28	1978
1979	0.037	0.028	0.125	9.50	7.25	2.14	0.158	0.071	0.054	0.048	0.055	0.040	1.82	1979
1980	0.020	0.028	0.049	0.918	0.083	0.003	0.001	0.078	0.094	0.311	0.305	0.053	0.159	1980
1981	0.025	0.075	0.272	0.203	0.471	3.41	0.808	0.708	1.85	3.47	1.30	0.405	1.08	1981
MEAN	0.058	0.046	0.483	4.89	4.58	2.90	1.35	0.858	1.17	0.988	0.823	0.142	1.85	MEAN

LOCATION - LAT 48 59 33 N LONG 95 39 43 W DRAINAGE AREA, 485 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05OD003

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)		MINIMUM DAILY DISCHARGE (m^3/s)		TOTAL DISCHARGE (dam^3)	YEAR
1928	---		---		---		---	1928
1929	4.81 AT 08:00 CST ON MAY 30		4.67 ON MAY 30		---		---	1929
1930	29.4 AT 14:00 CST ON MAY 13		28.9 ON MAY 13		0 B ON APR 1 *		---	1930
1931	4.67 B	ON APR 9	4.25 B ON APR 9		---		---	1931
1932	11.5 B	ON APR 14	10.0 B ON APR 13		---		---	1932
1933	16.4 AT 08:00 CST ON APR 20		16.4 ON APR 20		---		---	1933
1934	0.7388 AT 13:00 CST ON APR 7		0.680 ON JUN 24		0 ON AUG 6		---	1934
1935	---		---		---		---	1935
1936	17.3 AT 23:00 CST ON APR 20		16.9 ON APR 21		---		---	1936
1937	44.2 AT 03:00 CST ON JUL 17		41.9 ON JUL 17		---		---	1937
1938	---		---		---		---	1938
1939	0.850 AT 08:30 CST ON JUN 4		0.793 ON JUN 4		0 ON JUL 30		---	1939
1940	2.04 B	ON APR 30	1.84 B ON APR 15		---		---	1940
1941	53.2 AT 10:30 CST ON SEP 26		52.4 ON SEP 26		0.0038 ON DEC 31		84 200	1941
1942	58.6 AT 19:00 CST ON SEP 1		55.5 ON SEP 1		0 B ON JAN 1		78 700	1942
1943	---		22.8 ON APR 10		0.0409 ON DEC 22		71 900	1943
1944	30.6 AT 19:00 CST ON JUN 6		30.0 ON JUN 7		0.0118 ON FEB 9		79 900	1944
1945	30.0 AT 20:00 CST ON MAR 28		27.4 ON MAR 28		0.0578 ON FEB 6		85 800	1945
1946	5.52 B	ON MAR 23	5.50 B ON MAR 23		0.014 ON AUG 26		31 500	1946
1947	41.6 AT 09:00 CST ON JUN 12		39.4 ON JUN 12		0 B ON FEB 23		48 400	1947
1948	28.6 AT 01:00 CST ON APR 21		27.1 ON APR 21		0.048 ON OCT 5		53 900	1948
1949	11.6 AT 01:00 CST ON APR 15		11.4 ON APR 15		0.023 ON SEP 9		28 500	1949
1950	41.6	ON MAY 12	36.8 E ON MAY 11		0.0408 ON FEB 26		114 000	1950
1951	---		11.0 ON MAY 2		0.0148 ON DEC 29		37 400	1951
1952	1.85 AT 07:00 CST ON JUL 4		1.83 ON JUL 4		0.0148 ON JAN 1		6 970	1952
1953	8.85 AT 23:00 CST ON JUN 3		6.20 ON JUN 4		0.0238 ON JAN 17		19 200	1953
1954	14.6 AT 20:00 CST ON APR 30		14.4 ON MAY 1		0.031 ON AUG 6		39 800	1954
1955	15.8 AT 10:30 CST ON JUN 6		15.4 ON JUN 6		0.011 ON SEP 6		47 200	1955
1956	24.4 AT 22:00 CST ON JUL 5		21.8 ON JUL 5		0.0428 ON JAN 27		83 800	1956
1957	11.9 AT 23:00 CST ON JUN 15		11.5 ON JUN 15		0.0238 ON JAN 17		59 000	1957
1958	4.67 AT 07:00 CST ON JUL 10		4.64 ON JUL 9		0.0268 ON JAN 24		15 700	1958
1959	16.8 AT 19:00 CST ON MAY 7		16.5 ON MAY 7		0.0318 ON MAR 11		55 700	1959
1960	20.0 AT 17:00 CST ON APR 15		19.7 ON APR 16		0.040 ON SEP 23		37 200	1960
1961	3.26 P AT 20:10 CST ON MAR 24		2.83 B ON MAR 25		0 ON AUG 8		9 390	1961
1962	24.4 AT 03:00 CST ON MAY 25		23.9 ON MAY 25		0 B ON JAN 30		85 800	1962
1963	20.0 AT 13:00 CST ON APR 10		19.5 ON APR 10		0.0038 ON JAN 31		47 800	1963
1964	13.2 AT 00:00 CST ON JUN 20		12.6 ON JUN 20		0.0038 ON FEB 25		48 700	1964
1965	35.4 AT 12:00 CST ON MAY 7		34.0 ON APR 15		0.0288 ON FEB 2		112 000	1965
1966	26.4 AT 02:30 CST ON APR 18		26.1 ON APR 18		0.0468 ON DEC 31		97 200	1966
1967	31.1 AT 23:00 CST ON APR 22		30.0 ON APR 22		0.0038 ON FEB 12		49 500	1967
1968	24.4 AT 15:00 CST ON JUN 11		23.8 ON JUN 11		0.0178 ON JAN 18		85 100	1968
1969	24.6 AT 02:30 CST ON APR 13		24.3 ON APR 13		0.0288 ON FEB 6		63 960	1969
1970	33.4 AT 10:00 CST ON APR 28		32.6 ON APR 28		0.037 ON SEP 6		86 500	1970
1971	9.74	ON APR 19	8.76 ON APR 20		0.0408 ON FEB 16		36 100	1971
1972	13.5 AT 05:00 CST ON APR 23		13.4 ON APR 22		0.0238 ON FEB 10		33 500	1972
1973	10.5 AT 03:00 CST ON SEP 26		10.4 ON SEP 26		0.0148 ON JAN 9		35 400	1973
1974	72.5	ON APR 22 *	70.2 ON APR 22 *		0.016 ON JUL 29		98 100	1974
1975	13.9 AT 10:30 CST ON APR 29		13.7 ON APR 29		0.0488 ON MAR 11		43 800	1975
1976	5.38 AT 05:00 CST ON JUN 29		5.24 ON JUN 29		0 B ON DEC 6		20 700	1976
1977	2.83 AT 14:30 CST ON SEP 27		2.75 ON SEP 27		0.0038 ON FEB 16		9 820	1977
1978	18.5 AT 23:00 CST ON APR 19		17.9 ON APR 19		0.0378 ON MAR 9		39 500	1978
1979	27.3 AT 18:30 CST ON APR 20		26.5 ON APR 22		0.020 ON SEP 21		51 200	1979
1980	5.24 AT 03:00 CST ON APR 7		4.81 B ON APR 7		0 ON JUL 10		5 030	1980
1981	8.83 AT 17:30 CST ON JUN 15		7.73 ON JUN 16		0.0228 ON JAN 28		34 200	1981
							52 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STEEPROCK RIVER NEAR MAFEKING - STATION NO 05LF001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.33	7.59	12.8	3.86	3.30	3.85	3.16	2.83	---	---	1954
1955	---	---	1.19	4.53	10.2	2.37	1.59	0.416	0.391	0.887	---	---	2.70	1955
1956	---	---	0.512	0.783	8.69	4.21	3.38	0.953	0.787	0.770	---	---	2.52	1956
1957	---	---	0.086	2.05	7.91	2.85	0.807	0.575	1.57	0.581	---	---	2.02	1957
1958	---	---	0.483	2.42	2.77	1.70	11.7	0.953	1.89	1.68	---	---	2.96	1958
1959	---	---	---	1.47	4.07	7.70	2.90	0.979	8.48	3.34	---	---	---	1959
1960	---	---	0.974	2.10	5.53	4.29	1.41	1.08	1.04	1.28	---	---	2.21	1960
1961	---	---	0.500	1.02	2.35	0.785	0.237	0.254	0.256	0.283	---	---	0.710	1961
1962	---	---	0.082	1.04	4.31	0.825	0.189	0.173	1.05	0.516	---	---	1.02	1962
1963	---	---	0.274	2.32	3.70	5.28	1.88	0.785	0.902	0.577	---	---	1.95	1963
1964	---	---	---	1.84	7.74	2.23	1.90	4.01	3.50	2.27	---	---	---	1964
1965	---	---	0.379	1.18	11.5	5.05	1.75	1.09	4.98	3.02	---	---	3.82	1965
1967	---	---	0.744	1.38	10.7	4.39	2.08	1.68	0.673	0.959	---	---	2.84	1967
1968	---	---	0.315	1.08	5.00	5.87	9.44	5.73	2.86	2.97	---	---	4.55	1968
1969	---	---	0.788	2.68	2.15	1.85	1.73	1.44	1.83	5.02	---	---	2.19	1969
1970	---	---	0.486	1.07	7.38	4.25	5.02	1.42	1.40	3.78	---	---	3.11	1970
1971	---	---	0.778	2.86	5.07	4.09	3.17	1.70	2.19	3.13	---	---	2.88	1971
1972	---	---	0.735	2.33	8.81	2.82	2.88	1.17	0.884	0.828	---	---	2.54	1972
1973	---	---	0.537	0.880	4.02	11.5	3.71	1.67	1.84	1.81	---	---	3.17	1973
1974	---	---	0.323	2.52	11.0	4.38	2.79	1.48	3.39	2.28	---	---	3.52	1974
1975	---	---	0.880	1.51	6.18	5.38	2.48	4.61	4.80	3.50	---	---	3.84	1975
1976	---	---	0.677	2.28	1.88	8.28	2.08	0.887	0.585	0.850	---	---	2.12	1976
1977	---	---	0.550	2.87	2.41	0.802	2.41	5.70	8.78	4.38	---	---	3.24	1977
1978	---	---	0.601	1.76	4.98	1.78	1.07	0.802	1.78	3.42	---	---	2.02	1978
1979	---	---	0.854	1.26	10.1	8.81	2.88	1.78	1.42	1.20	---	---	3.24	1979
1980	---	---	0.630	3.14	1.38	0.806	0.784	3.20	2.82	2.34	---	---	1.88	1980
1981	---	---	0.615	1.26	1.88	2.88	3.78	1.40	1.71	3.29	---	---	2.13	1981
1982	---	---	0.583	1.48	3.88	3.51	5.02	2.15	1.46	1.73	---	---	2.46	1982
1983	---	---	0.882	1.62	9.58	8.28	5.05	2.49	3.46	2.38	---	---	4.32	1983
1984	---	---	0.902	4.46	9.88	7.50	3.07	1.83	2.18	6.32	---	---	4.49	1984
1985	---	---	0.658	4.11	5.95	5.89	3.89	7.26	3.41	3.87	---	---	4.50	1985
1988	---	---	0.730	2.97	6.05	3.58	2.84	1.43	2.20	2.88	---	---	2.78	1988
MEAN	---	---	0.598	2.08	6.07	4.55	3.07	2.10	2.37	2.33	2.83	---	2.80	MEAN

LOCATION - LAT 52 43 40 N DRAINAGE AREA, 301 km²
LONG 101 08 45 W REGULATED SINCE 1958

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	80.7 ON JUN 9	---	---	1954
1955	---	46.4 ON MAY 6	0.085 ON SEP 13	57 200	1955
1956	---	19.2 ON MAY 23	0.227 ON AUG 28	53 400	1956
1957	---	15.2 ON MAY 7	0.0578 ON MAR 11	42 800	1957
1958	---	138 ON JUL 6 *	0.3888 ON MAR 1	82 800	1958
1959	---	89.9 ON SEP 2	---	---	1959
1960	---	17.6 ON MAY 14	0.725 ON AUG 29	46 700	1960
1961	---	4.50 ON MAY 19	0.184 ON JUL 9	15 000	1961
1962	---	7.42 ON MAY 18	0 ON MAR 1 *	21 800	1962
1963	---	12.2 ON JUN 12	0.1228 ON MAR 10	41 200	1963
1964	---	80.9 ON MAY 7	---	---	1964
1965	---	83.6 B ON MAY 6	0.3408 ON MAR 23	76 700	1965
1967	---	36.2 ON MAY 25	0.805 ON SEP 1	80 100	1967
1968	---	74.5 ON JUL 21	0.1338 ON MAR 1	56 300	1968
1969	---	19.1 ON OCT 3	0.742 ON AUG 15	46 400	1969
1970	---	15.5 ON OCT 26	0.4988 ON MAR 1	65 800	1970
1971	---	23.4 ON JUN 8	0.714 ON SEP 11	81 000	1971
1972	---	15.7 ON MAY 13	0.586 ON SEP 11	53 700	1972
1973	84.3 AT 22 44 CST ON JUN 19 *	58.6 ON JUN 18	0.4788 ON MAR 1	67 200	1973
1974	52.1 AT 01 00 CST ON MAY 22	38.6 ON MAY 22	0.2888 ON MAR 1	74 800	1974
1975	---	23.7 A ON SEP 18	0.5728 ON APR 8	77 200	1975
1976	89.5 AT 00 35 CST ON JUN 14	58.8 ON JUN 13	0.456 ON OCT 1	44 900	1976
1977	32.8 AT 16 35 CST ON AUG 10	20.6 ON AUG 10	0.380 ON JUN 28	88 800	1977
1978	13.8 AT 20 50 CST ON MAY 3	12.1 ON MAY 3	0.521 ON AUG 31	42 800	1978
1979	49.5 AT 13 04 CST ON MAY 27	38.4 ON MAY 27	0.8198 ON MAR 1	68 800	1979
1980	20.7 AT 04 35 CST ON AUG 5	11.6 ON APR 22	0.381 ON AUG 2	38 400	1980
1981	35.8 AT 10 58 CST ON JUL 16	23.3 ON JUL 16	0.4288 ON MAR 1	45 200	1981
1982	67.3 AT 18 52 CST ON JUL 17	30.3 ON JUL 18	0.5108 ON APR 1	52 000	1982
1983	37.7 AT 09 02 CST ON JUN 3	31.7 ON JUN 3	0.5908 ON MAR 1	51 500	1983
1984	49.1 AT 04 30 CST ON MAY 17	31.4 ON MAY 17	0.8578 ON MAR 1	85 100	1984
1985	80.0 ON AUG 13	51.9 E ON AUG 13	0.8318 ON MAR 1	85 300	1985
1988	17.3 AT 18 17 CST ON SEP 28	12.8 ON SEP 28	0.5898 ON MAR 11	58 900	1988
				58 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR BEDE - STATION NO. 05NG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.025	---	---	---	---	---	---	---	---	1936
1965	---	---	0	1.35	0.086	0.087	0.005	0.104	0.157	0.204	---	---	0.243	1965
1966	---	---	0.239	1.28	0.527	0.012	0.036	0	0	0	---	---	0.259	1966
1967	---	---	0	0.114	0.233	0	0	0	0	0	---	---	0.044	1967
1968	---	---	0.142	0.011	0	0	0	0	0	0	---	---	0.019	1968
1969	---	---	0	3.14	0.387	0	1.29	0.050	0	0	---	---	0.802	1969
1970	---	---	0	2.91	3.36	0.080	0	0	0	0	---	---	0.782	1970
1971	---	---	0	0.210	0.047	1.32	0.321	0	0	0	---	---	0.234	1971
1972	---	---	1.22	1.19	0.162	0.076	0	0	0	0	---	---	0.330	1972
MEAN	---	---	0.200	1.28	0.534	0.184	0.207	0.021	0.020	0.028	---	---	0.315	MEAN

LOCATION - LAT 49 27 19 N DRAINAGE AREA, 830 km²
LONG 100 57 44 W NATURAL FLOW

STONY CREEK NEAR BEDE - STATION NO. 05NG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1936	---	---	---	---	1936
1965	---	5.27 ON APR 14	0.0 ON MAR 1 *	5 150	1965
1966	---	4.67 ON APR 3	0.0 ON MAR 1	5 490	1966
1967	---	0.968 ON MAY 4	0.0 ON MAR 1	922	1967
1968	---	0.9918 ON MAR 24	0.0 ON MAR 1	406	1968
1969	---	19.8 ON APR 16 *	0.0 ON MAR 1	12 700	1969
1970	---	9.85 ON MAY 2	0.0 ON MAR 1	15 800	1970
1971	---	5.86 ON JUN 10	0.0 ON MAR 1	4 950	1971
1972	---	4.56 B ON MAR 23	0.0 ON MAR 1	6 980	1972
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 680	MEAN

STONY CREEK NEAR BROOMHILL - STATION NO. 05NG019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	1.12	0.059	0.082	0.105	0.078	0.147	0.172	---	---	0.218	1965
1966	---	---	0.237	0.968	0.417	0.012	0.032	0	0	0	---	---	0.207	1966
1967	---	---	0	0.183	0.214	0	0	0	0	0	---	---	0.049	1967
1968	---	---	0.092	0.012	0	0	0	0	0	0	---	---	0.013	1968
1969	---	---	0	2.32	0.370	0.001	0.729	0.015	0	0	---	---	0.426	1969
1970	---	---	0	2.98	1.86	0.099	0.021	0	0	0	---	---	0.616	1970
1971	---	---	0	0.141	0.031	0.201	0.075	0	0	0	---	---	0.055	1971
1972	---	---	0.838	0.853	0.103	0.030	0	0	0	0	---	---	0.239	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	4.90	0.734	0.177	0.018	0	0	0	---	---	0.717	1974
1975	---	---	0	4.51	1.33	0.415	0.042	0.005	0.455	0.431	---	---	0.887	1975
1976	---	---	0	14.5	0.479	0.291	0.043	0	0	0	---	---	1.88	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0	0	0	0	0	0	0	---	---	0	1978
1979	---	---	0	0.954	0.486	0.027	0	0	0	0	---	---	0.179	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.011	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.525	0	0	0	0	0	0	---	---	0.084	1982
1983	---	---	0	1.14	0.083	0.003	0	0	0	0	---	---	0.151	1983
1984	---	---	0.002	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0.340	0.202	0	0	0	0	0	0.011	---	---	0.069	1985
1986	---	---	0.411	0.182	0.455	0.001	0	0	0	0	---	---	0.132	1986
MEAN	--	0.011	0.087	1.62	0.300	0.081	0.048	0.004	0.027	0.028	---	---	0.268	MEAN

LOCATION - LAT 49 23 52 N DRAINAGE AREA, 476 km²
LONG 101 05 54 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.050 AND 0 m³/s OCCURRED IN FEBRUARY

STONY CREEK NEAR BROOMHILL - STATION NO. 05NG019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	5.27 ON APR 13	0.8 ON MAR 1 *	4 610	1965
1966	---	4.22 ON APR 3	0.8 ON MAR 1	4 380	1966
1967	---	0.906 ON MAY 2	0.8 ON MAR 1	1 050	1967
1968	---	0.9068 ON MAR 24	0.8 ON MAR 1	279	1968
1969	---	17.0 ON APR 16	0.8 ON MAR 1	9 020	1969
1970	---	14.6 ON APR 30	0.8 ON MAR 1	13 100	1970
1971	---	1.58 ON JUN 14	0.8 ON MAR 1	1 170	1971
1972	---	3.11 B ON MAR 21	0.8 ON MAR 1	5 080	1972
1973	---	0.0038 ON MAR 13	0.8 ON MAR 1	1.04	1973
1974	---	20.7 ON APR 18	0.8 ON MAR 1	15 200	1974
1975	---	15.8 ON APR 29	0.8 ON MAR 1	18 800	1975
1976	---	54.7 B ON APR 10 *	0.8 ON MAR 1	38 900	1976
1977	---	0 B ON MAR 1	0.8 ON MAR 1	0	1977
1978	---	0 B ON MAR 1	0.8 ON MAR 1	0	1978
1979	---	6.71 ON APR 25	0.8 ON MAR 1	3 790	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0.0028 ON MAR 1	0.8 ON MAR 3	0.28	1981
1982	3.43 AT 05:43 CST ON APR 15	3.13 ON APR 15	0.8 ON MAR 1	1 380	1982
1983	3.87 AT 20:33 CST ON APR 12 *	3.74 ON APR 24	0.8 ON MAR 1	3 190	1983
1984	---	0.022A ON MAR 25	0.8 ON MAR 1	5.98	1984
1985	1.89 AT 02:00 CST ON MAR 25	1.81 ON MAR 25	0.8 ON MAR 1	1 480	1985
1986	2.89 AT 12:29 CST ON MAY 9	2.45 ON MAY 9	0.8 ON MAR 10	2 790	1986
				5 890	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.848	3.34	---	---	---	---	---	---	---	---	---	1961
1962	---	---	0	1.09	0.880	0.337	0.414	5.79	1.78	0.291	0.310	---	1.43	1962
1963	---	---	1.59	11.2	1.43	4.36	0.219	0.461	0.062	0.021	---	---	2.38	1963
1964	---	---	0	3.48	0.181	0.177	0.093	0.036	0.029	0.033	---	---	0.485	1964
1965	---	---	0	5.82	0.409	0.116	0.110	0.038	0.083	0.041	---	---	0.810	1965
1966	---	---	0.139	9.05	2.42	0.078	0.475	0.082	0.049	0.041	---	---	1.52	1966
1967	---	---	0.018	7.58	0.686	0.032	0.085	0.088	0.038	0.031	---	---	1.04	1967
1968	---	---	0.875	2.13	0.082	0.038	0.181	2.99	0.803	0.388	---	---	0.943	1968
1969	---	---	0.001	12.5	2.53	2.31	1.92	0.833	0.107	0.103	---	---	2.51	1969
1970	---	---	0.032	17.8	6.77	1.27	0.939	0.047	0.048	0.084	---	---	3.33	1970
1971	---	---	0	10.2	0.298	0.237	0.143	0.027	0.012	0.039	---	---	1.35	1971
1972	---	---	0.073	11.1	0.184	0.042	0.088	0.250	0.039	0.026	---	---	1.44	1972
1973	---	---	1.83	0.223	0.082	0.080	0.054	0.022	0.177	0.051	---	---	0.315	1973
1974	---	---	0.037	22.5	10.1	0.184	0.042	0.102	0.034	0.035	---	---	4.08	1974
1975	---	---	0.031	3.01	0.305	0.092	0.057	0.037	0.048	0.052	---	---	0.447	1975
1976	---	---	0.099	9.84	0.039	0.187	0.088	0.049	0.025	0.026	---	---	1.27	1976
1977	---	---	0.074	0.773	1.07	0.140	0.153	0.077	0.080	0.058	---	---	0.302	1977
1978	---	---	0.180	13.0	1.38	0.256	0.054	0.101	0.114	0.093	---	---	1.87	1978
1979	---	---	0	22.0	7.72	0.747	0.324	0.288	0.287	0.172	---	---	3.89	1979
1980	---	---	0.027	2.85	0.038	0.078	0.045	0.087	0.188	0.054	---	---	0.388	1980
1981	---	---	1.38	0.434	0.010	0.014	0.015	0.018	0.008	0.021	---	---	0.239	1981
1982	---	---	0.311	3.38	0.201	0.023	0.118	0.030	0.019	0.104	---	---	0.515	1982
1983	---	---	2.48	13.7	0.102	1.24	0.004	0.019	0.014	0.085	---	---	2.17	1983
1984	---	---	0.312	0.497	0.077	2.52	0.082	0.004	0.049	0.122	---	---	0.451	1984
1985	---	---	5.01	4.92	0.384	0.178	0.101	1.88	0.078	0.048	---	---	1.57	1985
1986	---	---	2.57	9.56	5.95	0.189	5.48	0.335	0.209	0.018	---	---	3.15	1986
MEAN	---	---	0.884	7.78	1.78	0.595	0.448	0.586	0.174	0.081	0.310	---	1.52	MEAN

LOCATION - LAT 49 52 52 N, LONG 97 15 43 W DRAINAGE AREA 576 km^2, NATURAL FLOW

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	0 B ON MAR 1 *	---	1961
1962	---	18.3 E ON AUG 24	0 B ON MAR 1	30 200	1962
1963	---	19.3 ON JUN 4	0 B ON MAR 1	50 300	1963
1964	---	11.2 B ON APR 16	0 B ON MAR 1	10 500	1964
1965	---	12.7 B ON APR 14	0 B ON MAR 1	17 200	1965
1966	---	32.3 B ON APR 13	0 B ON MAR 1	32 300	1966
1967	---	23.5 B ON APR 20	0 B ON MAR 1	22 200	1967
1968	---	15.6 ON AUG 24	0 ON MAR 1	20 000	1968
1969	---	35.1 ON APR 10	0 B ON MAR 1	53 200	1969
1970	---	50.4 ON APR 25	0 B ON MAR 1	70 400	1970
1971	---	42.5 ON APR 11	0 B ON MAR 1	28 500	1971
1972	---	41.9 ON APR 17	0.003 ON JUN 8	30 500	1972
1973	---	7.14 ON MAR 28	0 B ON MAR 1	6 660	1973
1974	---	82.7 ON APR 21 *	0.018 ON SEP 20	88 400	1974
1975	---	10.3 ON APR 17	0 E ON JUN 21	9 470	1975
1976	---	37.7 ON APR 8	0.003 ON AUG 26	25 800	1976
1977	---	12.8 ON MAY 5	0.0148 ON MAR 25	6 390	1977
1978	---	39.9 ON APR 14	0.0038 ON MAR 1	39 600	1978
1979	---	63.2 A ON APR 24	0 B ON MAR 1	82 400	1979
1980	---	10.4 B ON APR 10	0 B ON MAR 1	8 210	1980
1981	---	3.008 ON MAR 17	0 ON APR 10	5 080	1981
1982	---	15.5 B ON APR 13	0 B ON MAR 1	10 900	1982
1983	46.98 AT 16 12 CST ON APR 5	43.7 ON APR 6	0 B ON MAR 1	45 800	1983
1984	25.5 AT 18 10 CST ON JUN 21	14.3 ON JUN 22	0 ON AUG 28	8 540	1984
1985	---	28.5 A ON MAR 29	0 B ON MAR 1	33 200	1985
1986	55.4 AT 23 08 CST ON APR 1 *	52.5 ON APR 2	0 ON OCT 9	67 000	1986
				32 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.014	3.80	0.969	0.173	0.048	0.001	0	0	---	---	1.35	1978
1979	---	---	0	16.6	8.50	0.507	0.185	0	0	0	---	---	2.94	1979
1980	---	---	0	2.16	0.033	0	0.005	0.028	0.097	0.036	---	---	0.289	1980
1981	---	---	1.12	0.218	0.045	0.039	0.047	0.021	0.029	0.049	---	---	0.197	1981
1982	---	---	0.710	3.09	0.088	0.008	0.051	0.018	0.034	0.105	---	---	0.506	1982
1983	---	---	1.48	10.5	0.183	0.765	0.074	0.076	0.014	0.035	---	---	1.81	1983
1984	---	---	0.277	0.431	0.056	1.46	0.129	0.017	0.037	0.122	---	---	0.312	1984
1985	---	---	3.74	3.08	0.463	0.065	0.010	1.00	0.387	0.317	---	---	1.13	1985
1986	---	---	2.88	8.04	5.78	0.108	4.85	0.051	0.044	0.038	---	---	2.70	1986
MEAN	---	---	1.13	5.89	1.57	0.347	0.575	0.135	0.071	0.078	---	---	1.23	MEAN

LOCATION - LAT 49 55 20 N, LONG 97 20 40 W
DRAINAGE AREA 543 km^2
NATURAL FLOW

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	34.0 B AT 10 57 CST ON APR 14	30.6 B ON APR 14	0.08 ON MAR 1 *	28 600	1978
1979	63.3 B AT 03 54 CST ON APR 23 *	52.7 B ON APR 23 *	0.08 ON MAR 1	62 300	1979
1980	---	7.568 ON APR 11	0.08 ON MAR 1	8 120	1980
1981	3.26 AT 14 57 CST ON MAR 27	3.13 ON MAR 29	0 ON MAY 18	4 160	1981
1982	---	10.2 B ON APR 13	0.08 ON MAR 1	10 700	1982
1983	37.6 B AT 15 56 CST ON APR 5	35.9 B ON APR 5	0.08 ON MAR 1	34 100	1983
1984	11.1 AT 14 31 CST ON JUN 22	9.47 ON JUN 22	0 ON APR 17	6 600	1984
1985	---	17.8 B ON MAR 26	0.08 ON MAR 1	24 000	1985
1986	44.7 B AT 14 17 CST ON APR 1	40.4 B ON APR 1	0.08 ON MAR 1	57 100	1986
				26 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SWAN RIVER AT SWAN RIVER - STATION NO 05LE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	11 3	2 83	---	1912
1913	1 98	1 42	1 42	63 8	29 6	13 6	51 8	15 3	7 10	4 78	2 83	1 42	16 3	1913
1914	1 13	1 13	0 850	34 1	44 5	5 49	1 44	0 834	0 921	1 40	1 13	0 586	7 88	1914
1915	0	0	0.396	11 3	2 30	2 71	5 72	2 11	1 12	1 70	1 14	0 283	2 40	1915
1916	0 491	0 356	0 398	14 7	14 7	48 4	16 0	3 68	2 48	3 67	2 13	0 510	8 92	1916
1917	0 164	0 094	0 116	15 7	41 1	11 4	18 2	2 45	1 88	1 36	1 63	0 954	7 99	1917
1918	0.368	0 122	5 85	12 9	8 19	23 3	28 5	5 86	3 51	3 35	2 00	0 686	7 95	1918
1919	0.361	0 291	0 252	20 1	12 0	4 18	4 67	2 91	5 23	6 99	2 21	0 313	4 98	1919
1920	---	---	---	---	53 0	86 0	15 9	4 59	1 53	1 34	2 82	---	---	1920
1921	---	---	---	45 2	27 2	21 8	11 3	16 1	13 8	14 9	9 91	2 83	---	1921
1922	1 42	0 850	0 708	74 2	102	14 2	5 88	8 20	5 34	4 74	4 87	0 991	18 7	1922
1923	0 566	0 425	1 42	61 2	54 5	46 7	29 8	8 30	2 90	3 12	1 31	1 08	17 6	1923
1924	0 903	0 891	0.807	14 3	12 8	5 87	2 43	10 1	2 25	2 87	1 46	0 844	4 60	1924
1925	0 448	0 137	0 827	82 4	14 7	31 0	19 3	3 99	3 60	2 95	1 76	0 780	13 4	1925
1926	0 369	0 190	0 618	46 4	10 8	10 9	2 56	0 491	0 800	3 25	3 59	0 897	6 85	1926
1927	0 560	0 303	0 602	47 8	57 3	33 9	17 5	7 07	12 0	9 40	4 88	1 85	16 1	1927
1928	0 727	0 324	6 65	9 85	11 8	5 28	12 8	2 81	1 60	1 37	0 708	0 227	4 54	1928
1929	0 017	0 006	0 227	7 09	6 19	3 58	3 15	0 668	0 593	0 845	---	---	---	1929
1930	---	---	---	---	8 03	9 35	8 82	1 17	1 35	1 12	---	---	---	1930
1931	---	---	---	---	2 75	1 25	1 34	0 564	1 52	3 00	---	---	---	1931
1932	---	---	---	19 9	5 12	2 76	6 45	1 28	1 19	1 37	---	---	---	1932
1933	---	---	---	23 1	17 5	18 5	11 0	1 68	2 28	2 64	---	---	---	1933
1934	---	---	---	---	38 7	11 2	6 42	1 33	1 07	1 51	---	---	---	1934
1935	---	---	---	---	8 79	23 1	9 86	1 58	1 06	1 71	---	---	---	1935
1936	---	---	---	---	22 0	10 9	4 98	0 745	0 453	---	---	---	---	1936
1950	---	---	---	---	---	---	---	8 14	1 82	1 83	2 76	0 974	---	1950
1951	0 635	0 585	0 636	23 1	43 8	13 6	7 33	5 21	15 8	17 6	9 28	2 18	11 7	1951
1952	0 932	0 861	0 744	44 7	19 0	8 52	5 74	3 53	2 59	1 92	1 45	0 840	7 50	1952
1953	0 817	0 554	0 599	31 6	21 3	25 1	48 2	18 2	18 6	5 90	5 41	2 14	14 9	1953
1954	1 15	1 13	1.06	23 4	51 0	76 4	18 0	3 53	10 2	7 13	4 61	2 16	16 6	1954
1955	0 723	0 926	0 968	48 1	51 6	8 75	4 01	0 776	0 480	1 15	1 05	0 896	10 1	1955
1956	0 595	0 586	0 685	15 4	65 4	15 2	14 6	3 89	2 77	1 40	1 36	0 919	10 3	1956
1957	0 504	0 368	0 345	50 5	37 4	7 81	3 56	1 22	1 48	1 47	1 20	0 826	8 85	1957
1958	0 491	0 314	0 780	6 96	2 63	2 01	3 12	0 623	0 217	1 85	0 948	0 431	1 68	1958
1959	0 133	0	0 456	9 89	8 55	3 76	4 89	0 815	3 80	5 62	3 89	1 24	3 41	1959
1960	0 883	0 551	0 515	44 8	20 8	12 8	2 78	1 25	0 358	---	---	---	---	1960
MEAN	0 847	0 480	1 10	33 1	27 8	15 2	11 7	4 25	3 81	3 83	3 28	1 11	9 71	MEAN

LOCATION - LAT 52 05 45 N
LONG 101 15 30 W

DRAINAGE AREA 4 080 km²
NATURAL FLOW

SWAN RIVER AT SWAN RIVER - STATION NO 05LE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	139 ON APR 16	1 42 B ON FEB 1	514 000	1914
		113 ON MAY 7	0 311 ON AUG 19	248 000	
1915	---	32 3 ON APR 14	0 B ON JAN 1 *	75 700	1915
1916	---	77 3 ON JUN 11	0 3118 ON FEB 24	282 000	1916
1917	---	84 6 ON MAY 7	0 0288 ON MAR 1	252 000	1917
1918	---	86 0 ON JUL 4	0 0288 ON FEB 17	252 000	1918
1919	---	56 1 ON APR 14	0 0578 ON DEC 22	168 000	1919
1920	---	---	---	---	1920
1921	---	157 ON APR 25	---	---	1921
1922	---	83 0 ON APR 21	---	---	1922
1923	---	240 ON APR 25 *	0 7088 ON MAR 1	588 000	1923
1924	---	203 ON APR 23	0 4258 ON FEB 1	557 000	1924
		28 9 ON MAY 1	0 5388 ON MAR 14	148 000	
1925	---	225 ON APR 8	0 0578 ON FEB 26	423 000	1925
1926	---	126 B ON APR 19	0 0718 ON MAR 3	216 000	1926
1927	---	123 B ON APR 21	0 1848 ON FEB 19	508 000	1927
1928	---	43 0 ON JUL 6	0 1708 ON MAR 2	144 000	1928
1929	---	14 8 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	41 1 ON APR 12	---	---	1933
1934	---	---	---	---	1934
1935	---	55 2 ON MAY 6	---	---	1935
1936	---	---	---	---	1936
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	80 5 ON MAY 2	0 5108 ON JAN 25	368 000	1952
1953	---	77 6 ON APR 9	0 4818 ON DEC 24	237 000	1953
1954	---	77 6 ON JUL 3	0 5388 ON FEB 8	471 000	1954
		116 ON JUN 20	0 9918 ON JAN 15	525 000	
1955	---	104 ON APR 9	0 388 ON SEP 10	317 000	1955
1956	---	116 ON MAY 6	0 5688 ON FEB 1	326 000	1956
1957	---	192 ON APR 23	0 3408 ON MAR 7	279 000	1957
1958	---	11 78 ON APR 3	0 057 ON SEP 10	53 000	1958
1959	---	28.38 ON APR 10	0 B ON JAN 19	108 000	1959
1960	---	84.1 ON APR 21	---	---	1960
				308 000	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SWAN RIVER NEAR MINITONAS - STATION NO. OSLE006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	0.505	0.575	0.366	---	1960
1961	0.252	0.153	0.114	0.883	1.53	0.715	0.087	0.133	0.010	0.065	0.271	0.235	0.389	1961
1962	0.068	0	0.015	4.51	8.72	1.48	0.402	0.182	1.29	0.901	0.849	0.381	1.57	1962
1963	0.089	0.008	0.142	22.6	2.37	2.48	2.51	1.13	0.547	0.541	0.621	0.389	2.77	1963
1964	0.331	0.435	0.545	10.2	11.8	1.09	1.20	1.51	4.98	5.04	2.41	1.16	3.39	1964
1965	0.804	0.639	0.557	15.6	14.9	35.0	5.65	2.78	3.40	5.09	1.92	1.11	7.27	1965
1966	0.840	0.733	0.708	48.3	19.2	15.5	16.5	5.26	4.45	1.45	1.53	1.19	9.83	1966
1967	0.983	0.818	0.759	7.90	46.1	8.79	0.961	0.790	0.192	0.754	0.152	0.280	5.76	1967
1968	0.184	0.232	2.62	7.40	1.73	3.20	3.51	7.55	5.19	1.89	1.19	0.537	2.94	1968
1969	0.471	0.568	0.684	22.0	4.63	2.27	2.82	1.00	0.794	4.82	1.70	0.783	3.54	1969
1970	0.413	0.434	0.543	20.2	25.9	10.1	13.4	4.07	1.18	3.85	13.2	2.83	8.02	1970
1971	1.18	0.947	0.842	87.2	15.4	5.50	1.63	1.78	0.328	2.64	2.81	1.65	8.44	1971
1972	0.992	0.727	0.861	50.8	58.1	5.00	3.52	0.898	0.343	0.742	0.236	0.007	10.2	1972
1973	0.002	0	1.18	6.84	5.71	14.5	10.4	1.64	0.801	1.29	1.07	0.868	3.71	1973
1974	0.672	0.699	0.825	50.8	54.5	18.6	2.21	1.17	2.40	3.49	2.07	1.16	11.6	1974
1975	0.639	0.689	0.757	34.6	28.6	15.9	4.10	1.28	4.57	7.11	3.75	1.11	8.81	1975
1976	0.770	0.723	0.751	55.3	7.03	33.0	17.6	1.77	0.813	0.907	0.520	0.238	9.89	1976
1977	0.355	0.401	0.468	14.1	4.85	2.09	1.77	3.05	6.77	6.41	3.14	1.65	3.75	1977
1978	1.10	0.712	0.708	27.2	16.4	2.70	2.44	0.816	1.86	3.95	2.11	1.22	5.10	1978
1979	0.870	0.898	0.589	46.6	52.4	25.0	2.82	0.540	0.545	0.773	0.996	0.847	11.1	1979
1980	0.418	0.498	0.607	17.9	2.31	0.585	1.81	2.32	2.88	4.51	2.14	1.10	3.08	1980
1981	0.557	0.310	0.926	10.1	5.98	2.90	2.44	1.41	0.027	6.71	4.31	1.07	3.07	1981
1982	0.134	0.123	0.303	5.21	5.00	2.93	7.98	3.26	1.03	2.46	1.04	0.984	2.56	1982
1983	0.838	0.805	0.321	34.1	30.5	12.5	20.9	5.47	2.48	2.72	2.85	1.25	9.57	1983
1984	0.620	1.03	5.75	34.9	32.6	26.6	3.87	0.742	0.844	1.73	0.871	0.978	9.19	1984
1985	0.846	0.779	1.31	56.4	14.9	7.11	3.58	4.87	3.04	5.12	2.28	1.10	8.39	1985
1986	0.893	0.705	0.588	57.6	22.0	8.49	5.42	2.01	0.870	1.90	1.08	0.736	8.49	1986
MEAN	0.597	0.526	0.903	28.1	19.0	10.2	5.38	2.21	1.99	2.86	2.05	0.926	6.23	MEAN

LOCATION - LAT 52 11 47 N DRAINAGE AREA, 4 230 km²
LONG 101 03 37 W NATURAL FLOW

SWAN RIVER NEAR MINITONAS - STATION NO. OSLE006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	---	---	---	1960
1961	---	3.00 ON APR 24	0 ON AUG 25 *	11 700	1961
1962	---	15.9 A ON MAY 3	0 B ON JAN 28	48 700	1962
1963	---	67.1 B ON APR 10	0 B ON FEB 13	87 200	1963
1964	---	22.7 B ON APR 14	0.3118 ON JAN 7	107 000	1964
1965	82.4 AT 13 30 CST ON JUN 10	81.6 ON JUN 10	0.5558 ON MAR 4	229 000	1965
1966	---	127 B ON APR 17	0.6998 ON MAR 8	303 000	1966
1967	---	97.4 B ON MAY 8	0.006 ON SEP 12	182 000	1967
1968	---	25.9 B ON MAR 30	0.1618 ON JAN 13	92 800	1968
1969	---	75.6 B ON APR 15	0.201 ON SEP 3	112 000	1969
1970	54.9 AT 05 00 CST ON MAY 4	53.8 ON MAY 4	0.3408 ON JAN 19	253 000	1970
1971	163 AT 00 00 CST ON APR 18	158 ON APR 18	0.127 ON SEP 19	286 000	1971
1972	170 AT 15 20 CST ON APR 22	166 ON APR 22	0.8038 ON DEC 26	323 000	1972
1973	24.2 AT 08 56 CST ON JUL 8	24.1 ON JUL 8	0 B ON JAN 25	117 000	1973
1974	---	217 ON APR 21	0.578 ON AUG 11	365 000	1974
1975	120 AT 18 40 CST ON APR 25	117 ON APR 25	0.462 ON AUG 19	272 000	1975
1976	---	159 B ON APR 10	0.1818 ON DEC 1	312 000	1976
1977	---	45.3 B ON APR 14	0.3098 ON JAN 1	119 000	1977
1978	86.6 AT 01 08 CST ON APR 19	85.8 ON APR 19	0.467 ON AUG 23	181 000	1978
1979	---	198 A ON APR 25	0.357 ON SEP 8	349 000	1979
1980	61.4 AT 16 30 CST ON APR 17	58.5 ON APR 17	0.3928 ON JAN 1	97 400	1980
1981	---	16.8 E ON OCT 18	0.010 ON OCT 9	96 500	1981
1982	23.9 AT 12 56 CST ON JUL 18	23.4 ON JUL 24	0.0658 ON JAN 28	80 500	1982
1983	231 AT 05 43 CST ON APR 25 *	218 ON APR 25 *	0.1828 ON MAR 20	302 000	1983
1984	52.9 AT 12 40 CST ON MAY 27	52.7 ON MAY 27	0.254 ON SEP 2	290 000	1984
1985	---	114 B ON APR 13	0.7178 ON FEB 15	264 000	1985
1986	113 AT 03 00 CST ON APR 11	110 ON APR 11	0.4338 ON MAR 24	267 000	1986
				197 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TAYLOR RIVER NEAR THOMPSON - STATION NO 05TG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	---	---	---	---	---	3 42	6 84	3 06	---	1970
1971	1 27	0 846	0 714	4 86	16 0	6 15	10 9	7 32	5 32	---	---	---	---	1971
1972	2 14	1 42	0 902	2 98	22 8	11 0	5 46	2 47	3 93	5 92	3 11	1 12	5 29	1972
1973	1 09	1 22	0 790	0 571	9 65	4 95	4 85	7 49	5 88	6 00	4 39	2 54	4 13	1973
1974	1 19	0 826	0 881	5 04	19 4	9 68	5 61	3 78	4 28	4 52	3 18	2 32	5 09	1974
1975	1 42	0 742	0 488	2 06	16 4	18 4	10 7	6 82	5 65	10 9	5 30	2 28	6 80	1975
1976	1 07	0 857	0 738	2 21	3 69	10 1	13 1	6 88	3 33	3 28	2 49	1 39	4 12	1976
1977	0 734	0 632	0 803	11 2	10 3	12 6	11 0	4 04	5 32	5 03	5 42	1 91	5 74	1977
1978	0 354	0 233	0 296	1 40	12 4	8 02	7 15	6 52	7 01	17 4	9 59	4 45	6 29	1978
1979	1 81	0 844	0 380	0 485	13 5	22 5	8 29	1 73	1 55	3 13	4 05	2 28	4 86	1979
1980	0 729	0 531	0 510	4 36	2 68	1 86	2 40	5 82	18 6	15 2	4 70	2 20	4 95	1980
1981	1 36	0 997	0 788	0 721	13 5	3 96	0 775	0 177	0 047	3 87	2 07	1 06	2 44	1981
1982	0 873	0 505	0 431	1 90	23 7	11 2	2 47	3 23	3 45	4 11	3 08	1 80	4 75	1982
1983	1 56	1 30	1 02	1 93	23 0	17 8	6 58	2 85	11 1	8 56	2 83	1 34	6 66	1983
1984	0 808	0 691	0 855	9 96	19 0	10 7	5 22	2 58	6 17	7 74	4 21	2 00	5 82	1984
1985	1 33	1 03	0 845	7 98	21 7	15 8	11 7	2 91	1 16	1 81	1 26	0 380	5 70	1985
1986	0.363	0 311	0 184	0.971	20 8	11 3	20 9	12 8	4 28	2 51	0 993	0 580	6 40	1986
MEAN	1 11	0 805	0 640	3 88	15 5	11.0	7 81	4 81	5 44	6 46	3 96	1 92	5 27	MEAN

LOCATION - LAT 55 29 20 N LONG 98 11 10 W
DRAINAGE AREA 883 km²
NATURAL FLOW

TAYLOR RIVER NEAR THOMPSON - STATION NO 05TG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1970	---	---	---	---	1970
1971	23 7 AT 10 51 CST ON JUL 4	23 0 ON MAY 18	---	---	1971
1972	32 8 AT 00 12 CST ON MAY 1	32 3 ON MAY 1	0 846 ON APR 16	167 000	1972
1973	18 2 AT 22 47 CST ON MAY 7	13 1 ON MAY 10	0 5108 ON APR 28	130 000	1973
1974	26 3 AT 00 23 CST ON APR 30	22 7 ON MAY 13	0 7188 ON APR 15	180 000	1974
1975	28 6 AT 23 00 CST ON MAY 26	28 3 ON MAY 28	0 3888 ON MAR 26	215 000	1975
1976	19 8 AT 10 00 CST ON JUN 17	19 7 ON JUN 17	0 6238 ON MAR 23	130 000	1976
1977	---	21 5E ON APR 17	0 5788 ON MAR 27	181 000	1977
1978	---	20 5 ON OCT 5	0 2278 ON FEB 6	198 000	1978
1979	39.4 AT 20 30 CST ON JUN 2 *	33 7 ON JUN 2	0 2848 ON APR 9	153 000	1979
1980	28 2 AT 12 15 CST ON SEP 22	28 0 ON SEP 22	0 406 ON AUG 18	157 000	1980
1981	---	21 4B ON MAY 13	0 030 ON SEP 28 *	77 100	1981
1982	36 1 AT 18 25 CST ON MAY 5	36 9 ON MAY 5	0 3828 ON APR 19	150 000	1982
1983	37.8 AT 12 45 CST ON MAY 29	37 5 ON MAY 30 *	0 7708 ON APR 15	210 000	1983
1984	---	24 9 ON APR 28	0 8478 ON APR 1	184 000	1984
1985	---	28 8E ON APR 27	0 311 ON DEC 5	180 000	1985
1986	35 3 ON MAY 16	35 2 ON MAY 17	0 1558 ON MAR 27	202 000	1986
				155 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TEAK CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO 05PF087

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	0	0	0 007	0 015	0 004	0	0	0	0	0	0	0	0 002	1986
MEAN	0	0	0 007	0 015	0 004	0	0	0	0	0	0	0	0 002	MEAN

LOCATION - LAT 50 14 40 N LONG 95 52 54 W
DRAINAGE AREA 52 km²
NATURAL FLOW
DATA CONTRIBUTED BY - ATOMIC ENERGY OF CANADA

TEAK CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO 05PF087

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1986	0 101 ON MAR 31 *	0 072 ON MAR 31 *	0 ON JAN 1 *	69 3	1986
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		69 3	MEAN

TOBACCO CREEK NEAR ROLAND - STATION NO 05DF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1919	---	---	---	0.382	0.007	0.068	0.013	0	---	---	---	---	---	1919
1920	---	---	---	---	0.118	0.004	0	---	---	---	---	---	---	1920
1921	---	---	---	0.855	0.053	0.011	---	---	---	---	---	---	---	1921
1922	---	---	---	1.40	1.25	0.090	0.036	0.026	---	---	---	---	---	1922
1923	---	---	---	---	0.477	0.156	0.009	0	0	---	---	---	---	1923
1924	---	---	---	---	0.063	0	0	0	---	---	---	---	---	1924
1925	---	---	---	0.846	0.075	0.735	---	---	---	---	---	---	---	1925
1926	---	---	0.078	0.210	0.015	---	0.034	0	0.015	---	---	---	---	1926
1927	---	---	---	3.25	4.38	1.92	0.215	0	0.070	---	---	---	---	1927
1928	---	---	---	0.217	0.116	1.38	2.14	0.024	---	---	---	---	---	1928
MEAN	---	---	0.078	1.01	0.885	0.485	0.306	0.007	0.028	---	---	---	---	MEAN

LOCATION - LAT 49 24 10 N DRAINAGE AREA 313 km²
LONG 97 55 50 W NATURAL FLOW

TOBACCO CREEK NEAR ROLAND - STATION NO 05DF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1919	---	1.84 ON APR 8	0 ON APR 25 *	---	1919
1920	---	5.158 ON APR 15	0 ON MAY 23	---	1920
1921	---	11.0 ON JUL 5	0 ON MAY 17	---	1921
1922	---	11.2 ON MAY 13	0 ON JUL 8	---	1922
1923	---	20.2 B ON APR 18	0 ON JUL 15	---	1923
1924	---	2.83 ON APR 29	0B ON APR 16	---	1924
1925	---	---	0 ON MAY 21	---	1925
1926	---	2.75 ON JUN 24	0E ON MAR 1	---	1926
1927	---	24.1 ON MAY 11 *	0 ON AUG 1	---	1927
1928	---	12.5 ON JUL 8	0 ON AUG 9	---	1928
				---	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROSEBANK - STATION NO 05DF018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	0.217	0.032	0.008	0	---	---	---	---	---	---	1984
1985	---	---	0	1.43	0	0.001	0	0	0	0	---	---	0.175	1985
1986	---	---	0.423	0.826	0.394	0	0.123	0	0	0	---	---	0.220	1986
1987	---	---	0.019	1.51	0.275	0.003	0.091	0	0	0	---	---	0.235	1987
1988	---	---	0.149	0.056	0.284	0.026	0.082	1.31	0.191	0.032	---	---	0.265	1988
1989	---	---	0	3.58	0.192	0.248	1.04	0.058	0	0	---	---	0.532	1989
1970	---	---	0	4.35	1.78	0.053	0	0	0	0	---	---	0.785	1970
1971	---	---	0	1.47	0.111	0.171	0.057	0	0.017	0.201	---	---	0.249	1971
1972	---	---	0.749	0.832	0.238	0.010	0	0.004	0	0	---	---	0.241	1972
1973	---	---	0.067	0.030	0.052	0.003	0.011	0.003	0	0.004	---	---	0.021	1973
1974	---	---	0	4.07	2.42	0.180	0.002	0	0	0	---	---	0.824	1974
1975	---	---	0	0.308	0.138	0.255	0.079	0	0	0	---	---	0.088	1975
1976	---	---	0.003	1.31	0.031	0	0	0	0	0	---	---	0.185	1976
1977	---	---	0	0.002	0.010	0	0	0	0.076	0.010	---	---	0.012	1977
1978	---	---	0	0.813	0.447	0.187	0.234	0	0.007	0	---	---	0.207	1978
1979	---	---	0	4.01	1.22	0.199	0.021	0.012	0	0	---	---	0.675	1979
1980	---	---	0	0.226	0.001	0	0	0	0	0	---	---	0.028	1980
1981	---	0.084	0.081	0.026	0.003	0.012	0.004	0.001	0	0	---	---	0.015	1981
1982	---	---	0.017	0.215	0.029	0.021	0	0	0	0.012	---	---	0.038	1982
1983	---	---	0.396	1.17	0.038	0.030	0.011	0	0	0	---	---	0.203	1983
1984	---	---	0.020	0.031	0.084	0.029	0	0	0	0	---	---	0.018	1984
1985	---	---	0.698	0.280	0.101	0.012	0.004	0.581	0.011	0.111	---	---	0.226	1985
1986	---	---	1.31	0.818	0.805	0.008	0.003	0	0	0	---	---	0.389	1986
MEAN	---	0.084	0.171	1.20	0.378	0.082	0.077	0.090	0.014	0.017	---	---	0.258	MEAN

LOCATION - LAT 49 27 00 N DRAINAGE AREA 108 km²
LONG 98 09 45 W NATURAL FLOW

REMARKS - PRIOR TO 1980 LOCATED 4.8 km WEST 7.6 km NORTH OF ROSEBANK, DR AREA 87.3 km²

TOBACCO CREEK NEAR ROSEBANK - STATION NO 05OF018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	0 6888 ON APR 10	0B ON MAR 1 *	---	1964
1965	---	12 7 ON APR 13	0 ON MAR 1	3 710	1965
1966	12 7 AT 07 00 CST ON MAY 5	6 34 ON MAY 5	0B ON MAR 1	4 660	1966
1967	---	11 9 ON APR 21	0B ON MAR 1	4 970	1967
1968	23 2 AT 19 30 CST ON AUG 24 *	10 1 ON AUG 25	0B ON MAR 1	5 620	1968
1969	22 7 ON APR 10	19 4 ON APR 10	0B ON MAR 1	13 400	1969
1970	18 5 AT 07 35 CST ON APR 30	17 1 ON APR 30	0B ON MAR 1	16 200	1970
1971	13 4 B AT 13 40 CST ON APR 9	9 71 B ON APR 9	0B ON MAR 1	5 280	1971
1972	---	4 16 B ON MAR 19	0B ON MAR 1	5 090	1972
1973	0 5188 AT 17 10 CST ON MAR 15	0 4388 ON MAR 14	0B ON MAR 1	452	1973
1974	22 1 AT 11 20 CST ON APR 21	19 3 ON APR 21	0B ON MAR 1	17 500	1974
1975	4 50 AT 01 13 CST ON JUN 29	3 96 ON JUN 29	0B ON MAR 1	2 040	1975
1976	7 82 B AT 14 41 CST ON APR 3	4 45 B ON APR 3	0B ON MAR 1	3 500	1976
1977	0 889 AT 11 56 CST ON SEP 26	0 773 ON SEP 26	0B ON MAR 1	254	1977
1978	5 18 AT 11 59 CST ON MAY 26	3 43 ON MAY 26	0B ON MAR 1	4 390	1978
1979	---	26 8 B ON APR 20 *	0B ON MAR 1	14 300	1979
1980	---	1 46 B ON APR 7	0B ON MAR 1	588	1980
1981	---	0 3398 ON MAR 16	0 ON APR 29	337	1981
1982	---	1 16 B ON APR 14	0B ON MAR 1	768	1982
1983	4 75 AT 15 22 CST ON APR 7	3 71 B ON APR 1	0B ON MAR 1	4 300	1983
1984	0 7148 AT 22 17 CST ON MAR 27	0 280 ON MAY 6	0B ON MAR 1	380	1984
1985	4 96 AT 03 45 CST ON AUG 18	4 05 ON AUG 18	0B ON MAR 1	4 800	1985
1986	8 45 B AT 16 45 CST ON MAR 24	7 65 B ON MAR 24	0B ON MAR 1	7 810	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 470	MEAN

TOBACCO CREEK NEAR ROSEBANK - STATION NO 05OF016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0 202	1 81	0 260	0 104	0 042	0	0	0 040	---	---	0 279	1959
1960	---	---	0 047	4 73	0 233	0 029	0	0	0	0	---	---	0 619	1960
1961	---	---	0 833	0 648	0 087	0 002	0	0	0	0	---	---	0 196	1961
1962	---	---	0	1 57	1 31	0 313	0 021	0	0	0	---	---	0 400	1962
1963	---	---	0 367	0 098	0 002	0 447	0	0	0	0	---	---	0 113	1963
MEAN	---	---	0 290	1 73	0 378	0 179	0 013	0	0	0 008	---	---	0 321	MEAN

LOCATION - LAT 49 25 42 N DRAINAGE AREA 247 km^2
LONG 98 08 01 W NATURAL FLOW

TOBACCO CREEK NEAR ROSEBANK - STATION NO 05OF016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	8 72 ON APR 3	0B ON MAR 1 *	5 900	1959
1960	---	12 7 B ON APR 8 *	0B ON MAR 1	13 100	1960
1961	---	4 848 ON MAR 26	0B ON MAR 1	4 150	1961
1962	---	12 7 B ON APR 18	0 ON MAR 1	8 480	1962
1963	---	5 13 ON JUN 10	0B ON MAR 1	2 400	1963
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 800	MEAN

TOUROND CREEK NEAR TOUROND - STATION NO 05OE009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	2 51	0 311	0 077	0 080	0 051	0 005	0 016	---	---	0 373	1969
1970	---	---	0	2 19	2 88	0 682	0 043	0	0 011	0 015	---	---	0 723	1970
1971	---	---	0	1 75	0 081	0 006	0 008	0 005	0 003	0 038	---	---	0 233	1971
1972	---	---	0 080	0 528	0 065	0 016	0	0 005	0 001	0 005	---	---	0 084	1972
1973	---	---	0 723	0 063	0 011	0 010	0 003	0	0 058	0 037	---	---	0 114	1973
1974	---	---	0	4 95	4 75	0 420	0 003	0	0	0	---	---	1 26	1974
1975	---	---	0	0 260	0 054	0 486	0 444	0	0	0	---	---	0 154	1975
1976	---	---	0 002	0 484	0 008	0 280	0 007	0	0	0	---	---	0 093	1976
1977	---	---	0 027	0 151	0 007	0 008	0	0 001	0 030	0 007	---	---	0 028	1977
1978	---	---	0 001	1 84	0 109	0 015	0 003	0	0 002	0	---	---	0 208	1978
1979	---	---	0	2 53	1 09	0 532	0 011	0 005	0 004	0	---	---	0 515	1979
1980	---	---	0	0 529	0 005	0	0	0	0	0	---	---	0 085	1980
1981	---	---	0 031	0 021	0 013	0 113	0 005	0 003	0	0 007	---	---	0 024	1981
1982	---	---	0 523	1 99	0 137	0 709	1 43	1 34	0 017	0 076	---	---	0 778	1982
1983	---	---	0 885	3 05	0 119	0 087	1 16	0 002	0	0	---	---	0 858	1983
1984	---	---	0 428	0 213	0 034	0 740	0 052	0 007	0	0 002	---	---	0 183	1984
1985	---	---	0 458	0 093	0 015	0 001	0 001	0 595	0 006	0 019	---	---	0 150	1985
1986	---	---	0 313	1 69	3 30	0 015	0 005	0	0 001	0 001	---	---	0 888	1986
MEAN	---	---	0 182	1 36	0 722	0 231	0 180	0 112	0 008	0 012	---	---	0 350	MEAN

LOCATION - LAT 49 31 50 N DRAINAGE AREA 199 km^2
LONG 96 58 50 W NATURAL FLOW

TOUROND CREEK NEAR TOURONO - STATION NO. 05DE009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.6 B ON APR 10	0 B ON MAR 1 *	7 900	1969
1970	---	8.13 ON MAY 16	0 B ON MAR 1	15 300	1970
1971	---	10.6 B ON APR 8	0 B ON MAR 1	4 930	1971
1972	---	1.40 ON APR 19	0 B ON MAR 1	1 780	1972
1973	---	2.37 B ON MAR 13	0 B ON MAR 1	2 420	1973
1974	---	26.9 ON MAY 21 *	0 B ON MAR 1	28 800	1974
1975	---	8.38 E ON JUN 30	0 B ON MAR 1	3 270	1975
1976	---	3.20 ON JUN 12	0 B ON MAR 1	1 980	1976
1977	---	0.9438 ON APR 9	0 B ON MAR 1	587	1977
1978	---	6.77 B ON APR 9	0 B ON MAR 1	4 350	1978
1979	---	17.3 B ON APR 19	0 B ON MAR 1	10 900	1979
1980	5.60 AT 21 46 CST ON APR 5	4.75 B ON APR 5	0 B ON MAR 1	1 380	1980
1981	3.00 AT 22 41 CST ON JUN 27	1.79 ON JUN 28	0 ON MAY 15	507	1981
1982	9.46 AT 02 14 CST ON JUL 29	9.28 ON JUL 29	0 0018 ON MAR 1	16 400	1982
1983	---	8.86 B ON APR 7	0 B ON MAR 1	13 900	1983
1984	4.34 AT 09 02 CST ON JUN 9	3.58 ON JUN 9	0 B ON MAR 1	3 880	1984
1985	6.72 AT 17 42 CST ON AUG 24	5.07 ON AUG 24	0 B ON MAR 1	3 170	1985
1986	15.1 AT 15 12 CST ON MAY 5 *	13.5 ON MAY 1	0 B ON MAR 1	14 100	1986
				7 410	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.175	0.045	0.018	0	0	0	0	---	---	0.028	1978
1983	---	---	0.006	0.187	0	0.127	0.014	0	0	0	---	---	0.041	1983
1984	---	---	0.001	0	0	0.172	0.007	0	0	0	---	---	0.022	1984
1985	---	---	0.132	0.023	0	0	0	0.052	0.008	0	---	---	0.027	1985
MEAN	---	---	0.035	0.096	0.011	0.080	0.005	0.013	0.002	0	---	---	0.030	MEAN

LOCATION - LAT 49 54 34 N
LONG 97 15 50 W
DRAINAGE AREA 11.4 km^2
NATURAL FLOW

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	0.9178 AT 13 58 CST ON APR 10	0.917 ON APR 11 *	0B ON MAR 1 *	523	1978
1983	0.975 AT 20 57 CST ON JUN 22 *	0.824 ON JUN 23	0B ON MAR 1	855	1983
1984	0.843 AT 19 11 CST ON JUN 22	0.786 ON JUN 22	0B ON MAR 1	467	1984
1985	---	0.5028 ON MAR 23	0B ON MAR 1	574	1985
				833	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	0.205	0.123	0.018	0.015	0.006	0.027	0.001	---	---	0.052	1978
1983	---	---	0.111	0.207	0.004	0.140	0.018	0.013	0.003	0.001	---	---	0.061	1983
1984	---	---	0.033	0.029	0.017	0.378	0.025	0.004	0.025	0.070	---	---	0.072	1984
1985	---	---	0.261	0.056	0.020	0.033	0.015	0.188	0.010	0.033	---	---	0.075	1985
1986	---	---	0.173	0.183	0.141	0.021	0.029	0.001	0.010	0.002	---	---	0.070	1986
MEAN	---	---	0.121	0.138	0.081	0.118	0.020	0.038	0.015	0.021	---	---	0.065	MEAN

LOCATION - LAT 49 53 18 N
LONG 97 13 40 W
DRAINAGE AREA 16.3 km^2
NATURAL FLOW

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	4.22 AT 23 21 CST ON MAY 25	1.23 ON MAY 26	0B ON MAR 1 *	1 110	1978
1983	2.38 AT 03 58 CST ON JUN 22	0.983 ON JUN 22	0B ON MAR 1	1 300	1983
1984	5.50 AT 21 13 CST ON JUN 21 *	1.89 ON JUN 22	0B ON MAR 1	1 520	1984
1985	4.06 AT 10 26 CST ON AUG 17	1.98 ON AUG 17 *	0B ON MAR 1	1 590	1985
1986	2.46 AT 11 17 CST ON JUL 11	1.21 ON MAR 31	0B ON MAR 1	1 480	1986
				1 400	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TUMBLEWELL CREEK NEAR SOUTH INDIAN LAKE - STATION NO 05EC004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	---	---	---	0.024	0.026	0.132	0.065	---	---	---	---	1978
MEAN	---	---	---	---	---	0.024	0.026	0.132	0.065	---	---	---	---	MEAN

LOCATION - LAT 56 46 30 N
LONG 98 07 05 W
DRAINAGE AREA 4.35 km²
NATURAL FLOW
DATA CONTRIBUTED BY - FRESHWATER INSTITUTE (DFO) (CANADA)

TURTLE RIVER NEAR LAURIER - STATION NO 05LJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1927	---	---	---	---	18.8	---	---	3.80	0.527	1.03	---	---	---	1927
1928	---	---	---	---	2.57	10.2	3.30	0.516	0.113	---	---	---	---	1928
1948	---	---	---	---	---	0.989	2.02	1.95	0.250	0.276	---	---	---	1948
1949	---	---	---	5.93	1.84	2.19	2.40	0.524	0.248	0.527	---	---	---	1949
1950	---	---	---	6.58	17.7	8.42	6.01	1.89	0.963	1.25	---	---	---	1950
1951	---	---	---	10.0	4.97	2.37	0.827	0.525	0.573	1.20	---	---	---	1951
1952	---	---	---	9.98	1.21	0.692	0.363	0.585	2.33	0.522	---	---	---	1952
1953	---	---	---	9.71	15.1	24.1	7.72	2.50	1.44	1.23	---	---	---	1953
1954	---	---	---	6.02	7.06	10.9	3.32	0.729	4.66	3.42	1.98	---	---	1954
1955	---	---	---	13.8	12.0	14.9	1.88	0.549	0.438	0.521	---	---	---	1955
1956	---	---	---	7.65	9.75	20.7	12.7	1.09	0.776	0.683	---	---	---	1956
1957	---	---	0.612	12.1	4.49	5.23	0.871	0.459	0.687	0.632	---	---	3.07	1957
1958	---	---	1.54	3.57	1.18	0.484	1.49	0.102	0.094	0.353	---	---	1.10	1958
1959	---	---	0.604	3.87	4.85	1.25	0.582	0.154	0.281	0.746	---	---	1.54	1959
1960	---	---	0.057	18.2	10.5	1.99	0.528	0.548	0.250	0.358	---	---	4.01	1960
1961	---	---	0.125	0.880	2.01	0.163	0.034	0	0.011	0.104	---	---	0.414	1961
1962	---	---	0	3.61	2.40	2.46	0.195	0.182	0.098	0.171	---	---	1.13	1962
1963	---	---	1.31	10.1	4.24	7.08	1.01	0.266	0.486	0.445	---	---	3.09	1963
1964	---	---	0.009	7.01	2.74	0.570	0.249	0.121	0.134	0.091	---	---	1.35	1964
1965	---	---	0	6.05	7.05	3.26	0.844	0.392	4.34	0.981	---	---	2.85	1965
1966	---	---	3.89	8.63	9.81	1.91	0.571	1.27	0.234	0.201	---	---	3.29	1966
1967	---	---	0.032	13.7	10.5	1.25	0.329	0.184	0.056	0.358	---	---	3.28	1967
1968	---	---	0.829	2.77	2.84	1.27	1.83	1.86	1.08	0.706	---	---	1.52	1968
1969	---	---	0.122	13.9	2.58	5.93	4.44	0.572	0.709	0.887	---	---	3.81	1969
1970	---	---	0.202	11.0	18.6	4.26	1.67	0.387	0.773	1.10	---	---	4.87	1970
1971	---	---	0.031	8.03	1.94	15.7	3.51	0.891	0.574	3.08	---	---	4.27	1971
1972	---	---	0.880	18.4	5.77	1.14	0.392	0.255	0.222	0.442	---	---	3.37	1972
1973	---	---	1.08	1.30	1.56	2.78	0.387	0.579	1.49	1.57	---	---	1.34	1973
1974	---	---	0.314	21.8	20.7	3.72	0.789	0.388	0.438	0.430	---	---	5.01	1974
1975	---	---	0.153	7.99	6.32	4.58	0.721	8.18	38.0	8.46	---	---	8.21	1975
1976	---	---	0.649	38.2	4.16	5.47	0.908	0.265	0.280	0.481	---	---	6.32	1976
1977	---	---	0.099	1.25	1.75	0.717	3.77	0.578	3.96	1.53	---	---	1.70	1977
1978	---	---	0.365	9.65	2.30	0.975	0.402	0.138	0.635	0.538	---	---	1.85	1978
1979	---	---	0.083	20.5	20.8	3.59	0.640	0.292	0.377	0.385	---	---	5.80	1979
1980	---	---	0.122	7.04	0.591	0.208	0.243	1.89	1.88	1.18	---	---	1.60	1980
1981	---	---	0.650	3.13	3.56	4.48	0.871	0.508	0.359	0.772	---	---	1.78	1981
1982	---	---	0.148	10.3	3.87	0.873	0.448	0.273	0.238	1.06	---	---	2.14	1982
1983	---	---	0.109	13.3	5.69	3.06	3.78	0.275	0.121	0.327	---	---	3.43	1983
1984	---	---	0.721	2.10	2.40	4.59	0.441	0.053	0.192	1.52	---	---	1.49	1984
1985	---	---	2.32	10.7	1.81	2.77	0.938	2.44	1.39	2.24	---	---	3.05	1985
1986	---	---	4.37	13.5	26.4	1.99	1.38	0.554	0.682	0.874	---	---	6.23	1986
MEAN	---	---	0.700	9.84	7.18	4.78	1.86	0.928	1.77	1.07	1.98	---	3.16	MEAN

LOCATION - LAT 50 56 40 N
LONG 99 31 15 W
DRAINAGE AREA 976 km²
NATURAL FLOW

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1927	---	---	---	---	1927
1928	---	48.4 ON JUN 21	---	---	1928
1948	---	---	---	---	1948
1949	--	17.6 B ON APR 4	---	---	1949
1950	---	45.9 ON JUN 9	---	---	1950
1951	---	37.4 ON APR 29	---	---	1951
1952	---	34.8 B ON APR 8	0 ON AUG 21 *	---	1952
1953	---	86.9 E ON JUN 5	---	---	1953
1954	---	51.5 ON JUN 8	---	---	1954
1955	---	79.0 ON JUN 18	---	---	1955
1956	---	62.0 ON JUN 20	---	---	1956
1957	---	61.4 ON APR 25	0.1139 ON MAR 1	64 800	1957
1958	13.1 AT 23:30 CST ON JUL 5	12.3 B ON MAR 31	0 ON AUG 19	23 200	1958
1959	21.5 AT 05:00 CST ON MAY 4	17.7 ON MAY 4	0 B ON MAR 1	32 800	1959
1960	45.0B AT 03:30 CST ON APR 13	42.5 B ON APR 13	0.0578 ON MAR 1	85 000	1960
1961	---	7.42A ON MAY 7	0 B ON MAR 1	8 750	1961
1962	27.0 AT 22:50 CST ON MAY 30	20.8 ON MAY 31	0 B ON MAR 1	33 800	1962
1963	37.4B AT 18:25 CST ON APR 8	34.5 B ON APR 8	0 B ON MAR 1	85 400	1963
1964	---	25.7 B ON APR 12	0 B ON MAR 1	28 800	1964
1965	35.4B AT 12:30 CST ON APR 13	30.0 B ON APR 13	0 B ON MAR 1	60 200	1965
1966	47.6 AT 08:15 CST ON MAY 6	41.6 ON MAY 6	0.0658 ON MAR 1	88 600	1966
1967	---	71.6 B ON APR 18	0 ON SEP 9	89 400	1967
1968	16.6 AT 23:45 CST ON JUL 1	12.1 ON APR 21	0.0428 ON MAR 1	34 400	1968
1969	84.1B AT 20:10 CST ON APR 12	79.0 B ON APR 12	0.1228 ON MAR 1	76 400	1969
1970	55.8B AT 02:45 CST ON APR 30	52.1 B ON APR 30	0.125 ON SEP 10	103 000	1970
1971	98.3 AT 20:55 CST ON JUN 6	84.4 ON JUN 7	0.0318 ON MAR 1	90 400	1971
1972	---	41.9 B ON APR 12	0.017 ON SEP 1	71 400	1972
1973	17.2 AT 22:50 CST ON JUN 20	13.4 ON JUN 21	0.082 ON JUL 12	28 400	1973
1974	114 B AT 22:45 CST ON APR 20	103 B ON APR 20	0.150 ON AUG 10	127 000	1974
1975	260 AT 17:28 CST ON SEP 19 *	227 ON SEP 20 *	0.1638 ON MAR 1	185 000	1975
1976	97.1B AT 22:30 CST ON APR 7	84.4 ON APR 8	0.079 ON SEP 12	134 000	1976
1977	58.5 AT 05:20 CST ON JUL 12	51.0 ON JUL 12	0.0518 ON MAR 1	36 100	1977
1978	---	18.4 B ON APR 18	0.031 ON AUG 13	39 200	1978
1979	96.8 AT 00:45 CST ON APR 24	81.3 ON APR 24	0.0838 ON MAR 1	123 000	1979
1980	21.7 AT 05:42 CST ON APR 6	20.8 B ON APR 6	0.009 ON AUG 2	33 800	1980
1981	16.9 AT 01:05 CST ON JUN 16	14.0 ON JUN 16	0 B ON MAR 1	37 700	1981
1982	44.9B AT 11:52 CST ON APR 15	38.2 B ON APR 15	0 B ON MAR 1	45 400	1982
1983	---	44.7 B ON APR 21	0.075 ON SEP 29	72 800	1983
1984	49.5 AT 21:28 CST ON JUN 23	38.4 ON JUN 23	0.001 ON AUG 31	31 800	1984
1985	23.9 AT 04:22 CST ON APR 3	22.0 B ON APR 3	0 B ON MAR 1	84 800	1985
1986	241 AT 08:00 CST ON MAY 6	202 ON MAY 6	0.161 ON SEP 9	132 000	1986
				86 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	8.82	---	---	---	---	---	---	---	---	1948
1949	---	---	---	6.73	1.87	2.67	1.98	0.388	0.289	0.257	---	---	---	1949
1950	---	---	---	---	18.8	11.6	6.17	3.19	1.55	1.25	---	---	---	1950
1951	---	---	---	11.8	5.61	2.40	1.14	0.883	0.706	1.12	---	---	---	1951
MEAN	---	---	---	9.27	8.78	5.55	3.10	1.49	0.848	0.876	---	---	---	MEAN

LOCATION - LAT 51 03 35 N
LONG 99 31 50 W
DRAINAGE AREA, 1 090 km^2
NATURAL FLOW

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	64.3 ON APR 23	---	---	1948
1949	---	22.58 ON APR 5	---	---	1949
1950	---	68.8 ON JUN 10 *	---	---	1950
1951	---	48.4 ON APR 29	---	---	1951
				---	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.573	0.844	0.026	0.010	0	0	0	---	---	0.156	1964
1965	---	---	0	0.893	0.253	0.301	0.226	0.042	0.073	0.068	---	---	0.205	1965
1966	---	---	0.301	0.504	0.256	0.047	0.034	0	0	0.002	---	---	0.142	1966
1967	---	---	0.019	0.148	0.128	0.017	0	0	0	0	---	---	0.039	1967
1968	---	---	0.021	0.029	0.023	0.006	0.014	0.198	0.025	0.016	---	---	0.042	1968
1969	---	---	0	2.29	0.174	0.026	0.104	0.002	0	0.002	---	---	0.320	1969
1970	---	---	0	0.585	0.518	0.018	0	0	0	0	---	---	0.137	1970
1971	---	---	0.002	0.871	0.037	0.870	0.053	0.005	0.018	0.057	---	---	0.186	1971
1972	---	---	0.779	1.54	0.233	0.189	0.005	0.013	0	0	---	---	0.342	1972
1973	---	---	0.074	0.006	0.007	0.084	0.017	0.017	0	0.010	---	---	0.024	1973
1974	---	---	0	1.80	0.792	0.155	0.025	0	0	0	---	---	0.306	1974
1975	---	---	0	1.78	0.609	0.149	0.008	0	0.089	0.182	---	---	0.367	1975
1976	---	---	0.116	2.38	0.170	0.030	0.004	0	0	0	---	---	0.332	1976
1977	---	---	0.004	0.008	0.011	0	0	0	0	0	---	---	0.003	1977
1978	---	---	0.017	0.088	0.018	0.010	0.006	0	0	0	---	---	0.015	1978
1979	---	---	0	0.347	0.167	0.029	0	0	0	0	---	---	0.067	1979
1980	---	---	0.008	0.039	0.002	0	0	0.001	0.006	0.010	---	---	0.008	1980
1981	---	0.143	0.036	0.015	0.010	0.003	0	0	0	0	---	---	0.008	1981
1982	---	---	0.039	0.499	0.074	0.039	0	0	0	0	---	---	0.080	1982
1983	---	---	0.045	0.624	0.128	0.024	0.005	0	0	0	---	---	0.102	1983
1984	---	---	0.086	0.015	0.118	0.007	0	0	0	0	---	---	0.026	1984
1985	---	---	0.254	0.495	0.113	0.146	0.082	0.001	0.001	0.003	---	---	0.135	1985
1986	---	---	0.228	0.444	0.481	0.009	0.001	0	0	0	---	---	0.143	1986
MEAN	---	0.143	0.087	0.583	0.215	0.085	0.026	0.012	0.009	0.014	---	---	0.138	MEAN

LOCATION - LAT 49 07 59 N, LONG 100 23 57 W. DRAINAGE AREA 75.1 km². NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.584 AND 0 m³/s OCCURRED IN FEB

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1964	---	2.69 ON MAY 6	0.08 ON MAR 1 *	3 310	1964
1965	---	1.58 B ON APR 12	0.08 ON MAR 1	4 340	1965
1966	---	1.55 ON APR 6	0.08 ON MAR 1	3 020	1966
1967	---	0.371 ON APR 30	0.08 ON MAR 1	823	1967
1968	---	1.23 ON AUG 24	0.08 ON MAR 1	880	1968
1969	---	6.82 ON APR 6	0.08 ON MAR 1	8 770	1969
1970	---	3.20 ON APR 29	0.08 ON MAR 1	2 910	1970
1971	---	4.79 ON APR 7	0.08 ON MAR 1	3 940	1971
1972	---	2.74 ON APR 18	0.08 ON MAR 1	7 240	1972
1973	---	0.413 ON AUG 21	0.08 ON MAR 1	517	1973
1974	---	5.52 B ON APR 21	0.08 ON MAR 1	6 480	1974
1975	---	9.34 ON APR 28 *	0.08 ON MAR 1	7 340	1975
1976	---	4.84 ON APR 10	0 ON JUL 15	7 030	1976
1977	---	0.034 ON MAY 6	0.08 ON MAR 1	59.4	1977
1978	---	0.2948 ON MAR 31	0.08 ON MAR 1	312	1978
1979	---	3.96 B ON APR 19	0.08 ON MAR 1	1 420	1979
1980	---	0.1388 ON APR 6	0.08 ON MAR 1	178	1980
1981	---	0.0948 ON MAR 1	0 ON JUN 26	188	1981
1982	3.53 AT 17:51 CST ON APR 12	2.28 B ON APR 13	0.08 ON MAR 1	1 700	1982
1983	2.858 AT 16:14 CST ON APR 6	1.07 B ON APR 6	0 ON JUN 27	2 150	1983
1984	1.00 AT 19:57 CST ON MAR 24	0.531 ON MAR 24	0.08 ON MAR 1	542	1984
1985	4.508 AT 04:52 CST ON MAR 23 *	1.88 B ON MAR 23	0.08 ON MAR 1	2 870	1985
1986	1.88 AT 12:51 CST ON MAY 6	1.76 ON MAY 6	0.08 ON MAR 1	3 020	1986
				2 910	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.252	0.388	0.057	0.048	0	0.001	0	---	---	0.091	1964
1965	---	---	0	0.519	0.413	0.252	0.175	0.015	0.070	0.084	---	---	0.190	1965
1966	---	---	0.330	0.531	0.478	0.039	0.026	0	0	0	---	---	0.175	1966
1967	---	---	0.001	0.117	0.124	0.001	0	0	0	0	---	---	0.030	1967
1968	---	---	0.009	0.010	0.005	0.001	0	0.184	0.007	0.005	---	---	0.025	1968
1969	---	---	0	1.80	0.178	0.016	0.123	0.001	0	0.004	---	---	0.237	1969
1970	---	---	0	0.826	0.613	0.020	0.002	0	0	0	---	---	0.157	1970
1971	---	---	0.004	0.584	0.057	0.502	0.072	0	0.003	0.029	---	---	0.154	1971
1972	---	---	0.808	0.950	0.255	0.187	0.012	0.009	0	0.002	---	---	0.251	1972
1973	---	---	0.024	0.020	0.035	0.080	0.007	0.808	0.002	0.002	---	---	0.020	1973
1974	---	---	0.004	1.48	0.782	0.156	0	0	0	0	---	---	0.300	1974
1975	---	---	0	1.49	0.873	0.225	0.002	0.001	0.105	0.270	---	---	0.387	1975
1976	---	---	0.113	2.38	0.272	0.017	0	0	0	0	---	---	0.343	1976
MEAN	---	---	0.084	0.813	0.343	0.118	0.036	0.015	0.014	0.030	---	---	0.180	MEAN

LOCATION - LAT 49 09 43 N, LONG 100 25 03 W. DRAINAGE AREA 79.5 km². REGULATED

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	0.991 ON MAY 7	0B ON MAR 1 *	1 920	1964
1965	---	1.03 ON APR 14	0B ON MAR 1	4 030	1965
1966	---	1.28 ON APR 2	0B ON MAR 1	3 710	1966
1967	---	0.365 ON APR 30	0B ON MAR 1	643	1967
1968	---	1.42 ON AUG 18	0B ON MAR 1	536	1968
1969	---	3.85 ON APR 9	0B ON MAR 1	5 010	1969
1970	---	3.45 ON APR 28	0B ON MAR 1	3 320	1970
1971	---	2.83 B ON APR 9	0B ON MAR 1	3 250	1971
1972	---	1.74 ON APR 17	0B ON MAR 1	5 310	1972
1973	---	0.224 ON JUN 21	0B ON MAR 1	413	1973
1974	---	5.18 ON APR 21	0B ON MAR 1	6 330	1974
1975	---	5.45 ON APR 28 *	0B ON MAR 1	7 780	1975
1976	---	4.98 ON APR 6	0E ON JUN 20	7 260	1976
				3 810	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NG011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.021	---	---	---	---	---	---	---	---	1936
1959	---	---	0.078	0.029	0.008	0.002	0	0.097	0.019	1.54	---	---	0.224	1959
1960	---	---	0.015	2.19	0.928	0.335	0	0	0	0	---	---	0.429	1960
1961	---	---	0.076	0.011	0.029	0	0	0	0	0	---	---	0.015	1961
1962	---	---	0.009	0.146	0.025	0.086	0.003	0	0	0	---	---	0.034	1962
1963	---	---	0.067	0.002	0.002	0.160	0	0	0	0	---	---	0.029	1963
MEAN	---	---	0.049	0.478	0.169	0.119	0.001	0.018	0.004	0.308	---	---	0.146	MEAN

LOCATION - LAT 49 11 18 N
LONG 100 26 03 W
DRAINAGE AREA, 93.8 km^2
NATURAL FLOW

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NG011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1959	---	4.02 ON OCT 17	0B ON MAR 1 *	4 740	1959
1960	---	4.53 ON MAY 27 *	0B ON MAR 1	9 080	1960
1961	---	0.486 ON MAR 21	0 ON MAR 1	309	1961
1962	---	1.03 ON APR 6	0B ON MAR 1	728	1962
1963	---	1.08 ON JUN 13	0 ON MAR 27	803	1963
				3 090	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.316	3.59	4.65	1.00	0.664	1.11	0.189	0.105	---	---	1.45	1957
1958	---	---	0.380	0.647	0.215	0.131	0.070	0.019	0.028	0.050	---	---	0.192	1958
1959	---	---	0	0.062	0.408	1.80	2.73	0.813	0.433	0.521	---	---	0.838	1959
1960	---	---	0.533	1.41	3.18	5.02	1.13	0.322	0.182	0.058	---	---	1.47	1960
1961	---	---	0.109	0.154	0.183	0.035	0.308	0.229	0.067	0.117	---	---	0.151	1961
1962	---	---	0.007	0.278	0.205	0.124	0.019	0.006	0.008	0.014	---	---	0.082	1962
1963	---	---	0.038	0.361	0.119	0.124	0.163	0.012	0.006	0.008	---	---	0.103	1963
1964	---	---	0.042	0.148	0.178	0.022	0.009	0.546	0.005	0.011	---	---	0.121	1964
1965	---	---	0.028	0.185	0.236	0.082	0.055	0.291	0.288	0.778	---	---	0.241	1965
1966	---	---	0.604	0.902	1.88	2.33	2.97	0.582	0.257	0.243	---	---	1.22	1966
1967	---	---	0.400	0.721	0.679	0.192	0.080	0.037	0.137	0.173	---	---	0.302	1967
1968	---	---	0.416	0.441	0.168	0.153	0.174	0.085	0.034	0.018	---	---	0.186	1968
1969	---	---	0.245	0.360	0.118	0.185	0.423	0.289	0.085	0.260	---	---	0.246	1969
1970	---	---	0.388	0.707	6.25	4.02	2.95	1.80	0.682	0.508	---	---	2.17	1970
1971	---	---	0.357	1.22	1.24	1.29	1.05	0.431	0.155	0.740	---	---	0.809	1971
1972	---	---	0.786	1.06	2.92	1.82	0.673	0.220	0.108	0.238	---	---	0.949	1972
1973	---	---	0.180	1.01	0.184	0.479	1.00	0.838	0.609	1.39	---	---	0.685	1973
1974	---	---	0.443	1.43	8.19	6.52	1.77	0.591	0.272	0.466	---	---	2.58	1974
1975	---	---	0.249	1.16	7.02	5.82	2.68	0.938	1.34	2.08	---	---	2.66	1975
1976	---	---	0.447	2.57	2.95	10.9	---	---	---	---	---	---	---	1976
MEAN	---	---	0.295	0.920	2.10	2.08	0.999	0.471	0.257	0.409	---	---	0.866	MEAN

LOCATION - LAT 51 13 51 N
LONG 100 57 43 W
DRAINAGE AREA, 741 km^2
REGULATED

VALLEY RIVER AT TIMBERTON - STATION NO. OSLJ024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	6.82 ON APR 30	0.028 ON OCT 25	30 800	1957
1958	---	1.19 B ON APR 8	0 ON AUG 4 *	4 080	1958
1959	---	4.79 ON JUN 30	0 B ON MAR 1	17 500	1959
1960	---	11.6 ON MAY 31	0.020 ON SEP 14	31 100	1960
1961	---	0.980 ON JUL 17	0 ON JUN 29	3 190	1961
1962	---	1.35 ON APR 23	0 B ON MAR 1	1 730	1962
1963	---	0.5728 ON APR 18	0.006 ON AUG 11	2 130	1963
1964	---	1.88 E ON AUG 9	0.006 ON SEP 22	2 570	1964
1965	---	1.00 ON OCT 17	0.014 ON JUL 11	5 110	1965
1966	---	6.03 ON JUL 1	0.176 ON AUG 23	25 800	1966
1967	---	1.08 B ON APR 25	0.006 ON AUG 29	8 390	1967
1968	---	1.31 B ON APR 8	0.011 ON AUG 5	3 820	1968
1969	---	0.886E ON JUN 29	0.027 ON SEP 13	5 210	1969
1970	9.71 AT 07 01 CST ON MAY 18	9.26 ON MAY 18	0.3888 ON MAR 1	45 800	1970
1971	3.34 AT 17 08 CST ON APR 24	2.81 ON APR 24	0.065 ON SEP 25	17 100	1971
1972	8.97 AT 01 34 CST ON MAY 21	5.38 ON MAY 21	0.037 ON SEP 15	20 100	1972
1973	3.848 AT 00 47 CST ON APR 23	3.26 B ON APR 23	0.076 ON JUN 2	14 500	1973
1974	12.4 AT 14 59 CST ON MAY 28	12.3 ON MAY 28	0.083 ON SEP 15	54 700	1974
1975	12.5 AT 09 19 CST ON MAY 11 *	11.1 ON MAY 11	0.2498 ON MAR 1	55 300	1975
1976	---	21.0 E ON JUN 24 *	---	---	1976
				18 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT VALLEY RIVER - STATION NO. OSLJ004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	5.65	---	---	1912
1913	---	---	---	45.3	18.8	7.22	41.1	8.07	3.02	1.85	1.15	0.283	---	1913
1914	0.113	0	0.057	5.24	31.2	8.08	1.92	0.337	0.442	0.578	0.336	0.227	4.08	1914
1915	0	0	0	2.27	1.50	2.15	2.56	0.253	0.588	1.08	0.545	0	0.914	1915
1916	0.028	0.028	0.340	13.0	12.3	22.5	13.3	3.06	1.75	1.73	1.41	0.142	5.78	1916
1917	0	0	0	10.5	23.6	9.84	14.1	2.20	1.97	0.951	0.726	0.105	5.37	1917
1918	0	0	5.67	5.45	7.88	3.09	2.33	2.51	0.883	0.816	0.752	0.192	2.48	1918
1919	0.100	0.057	0.060	8.14	9.54	2.41	5.94	1.20	1.06	1.95	0.488	0.110	2.89	1919
1920	---	---	---	---	29.4	8.25	2.27	0.803	1.24	1.29	---	---	---	1920
1921	---	---	---	---	15.3	39.6	8.12	2.34	6.02	5.36	11.9	---	---	1921
1922	---	---	1.34	38.8	86.4	11.7	2.54	0.851	1.28	---	---	---	---	1922
1923	---	---	---	---	---	---	---	---	---	1.88	1.42	---	---	1923
1924	---	---	---	---	10.5	7.45	3.56	2.09	1.40	3.34	3.08	---	---	1924
1925	---	---	---	50.7	11.4	15.8	10.4	1.32	0.481	1.12	---	---	---	1925
1926	---	---	---	---	4.42	2.67	1.30	0.306	2.31	4.93	---	---	---	1926
1927	---	---	---	---	34.7	22.9	27.1	7.35	5.67	4.06	---	---	---	1927
1928	---	---	---	10.8	13.6	28.7	23.0	5.48	2.05	---	---	---	---	1928
MEAN	0.040	0.014	1.05	19.1	19.4	12.9	10.7	2.53	2.01	2.28	2.50	0.151	3.55	MEAN

LOCATION - LAT 51 15 10 N
LONG 100 08 40 W
DRAINAGE AREA, 2 720 km^2
NATURAL FLOW

VALLEY RIVER AT VALLEY RIVER - STATION NO. OSLJ004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	101 ON JUL 13	---	---	1913
1914	---	66.3 ON MAY 9	0 B ON FEB 1 *	129 000	1914
1915	---	5.97 ON JUL 20	0 B ON JAN 1	28 800	1915
1916	---	64.3 ON JUN 27	0.0288 ON JAN 1	183 000	1916
1917	---	41.3 ON MAY 10	0 B ON JAN 1	169 000	1917
1918	---	20.0 B ON MAR 29	0 B ON JAN 1	78 300	1918
1919	---	20.0 ON APR 10	0.0288 ON DEC 19	84 900	1919
1920	---	105 B ON APR 23	---	---	1920
1921	---	118 ON JUN 17	---	---	1921
1922	---	144 ON MAY 5 *	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	93.7 ON APR 7	---	---	1925
1926	---	---	---	---	1926
1927	---	100 ON APR 19	---	---	1927
1928	---	73.6 ON JUN 22	---	---	1928
				112 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER NEAR DAUPHIN - STATION NO. OSLJO10

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	40.7	4.35	15.7	6.10	1.01	0.501	---	---	---	1948
1949	---	---	---	7.26	2.05	5.14	2.15	1.40	0.041	0.047	---	---	---	1949
1950	---	---	---	---	8.47	5.29	3.08	1.80	0.114	1.04	---	---	---	1950
1951	---	---	---	17.6	19.3	2.59	3.26	2.09	2.71	2.73	---	---	---	1951
1952	---	---	---	20.1	3.36	1.82	0.487	0.033	0.368	0.259	---	---	---	1952
1953	---	---	---	13.1	9.49	35.4	17.7	5.44	2.63	4.11	4.54	---	---	1953
1954	---	---	---	20.5	22.2	44.6	24.8	2.85	9.27	11.2	4.81	---	---	1954
1955	---	---	---	31.0	23.6	13.1	4.58	1.67	0.378	0.581	---	---	---	1955
1956	---	---	---	13.4	40.8	13.6	13.4	3.56	2.28	1.30	---	---	---	1956
1957	---	---	1.07	28.9	13.6	3.05	1.17	1.14	0.383	0.348	---	---	6.15	1957
1958	---	---	1.39	6.56	1.04	0.575	0.408	0.035	0.015	0.034	---	---	1.24	1958
1959	---	---	1.17	5.52	2.08	5.57	5.18	0.805	0.607	0.920	---	---	2.84	1959
1960	---	---	0.283	28.7	8.92	8.21	1.32	0.295	0.038	0	---	---	6.01	1960
1961	---	---	0.259	1.10	0.844	0.090	0	0	0	0	---	---	0.286	1961
1962	---	---	0	4.59	1.13	0.511	0.022	0.001	0.001	0	---	---	0.771	1962
1963	---	---	1.28	4.19	1.35	1.76	1.20	0.048	0.001	0	---	---	1.22	1963
1964	---	---	0	3.98	2.18	0.081	0.007	0	0	0	---	---	0.775	1964
1965	---	---	0	7.77	3.15	1.31	1.76	1.84	1.67	1.33	---	---	2.34	1965
1966	---	---	0.748	23.7	9.74	4.84	5.10	0.862	0.280	0.126	---	---	5.51	1966
1967	---	---	0.297	25.1	12.8	0.954	0.184	0.022	0	0.002	---	---	4.88	1967
1968	---	---	2.88	5.28	0.583	0.128	0.019	0.015	0.008	0.003	---	---	1.12	1968
1969	---	---	0.105	14.1	1.14	0.226	2.02	0.804	0.081	0.585	---	---	2.36	1969
1970	---	---	0.487	25.5	22.1	7.70	5.51	2.91	0.445	0.889	---	---	8.16	1970
1971	---	---	0.751	24.3	3.73	8.42	2.42	0.730	0.088	1.15	---	---	5.13	1971
1972	---	---	2.58	21.2	8.85	2.61	0.864	0.425	0.557	0.608	---	---	4.67	1972
1973	---	---	0.685	1.42	0.936	1.64	1.22	0.549	1.40	2.22	---	---	1.26	1973
1974	---	---	0.504	46.6	38.4	13.0	2.14	0.681	0.426	0.573	---	---	12.7	1974
1975	---	---	0.433	24.8	16.8	11.6	3.75	1.32	5.76	4.73	---	---	8.82	1975
1976	---	---	1.32	30.0	7.04	31.3	9.36	1.86	1.14	0.201	---	---	10.1	1976
1977	---	---	0.384	2.44	1.32	0.702	0.629	0.474	1.20	3.45	---	---	1.32	1977
1978	---	---	0.844	12.3	3.23	1.18	0.561	0.381	0.270	0.279	---	---	2.33	1978
1979	---	---	0.280	44.8	22.3	12.3	1.85	0.360	0.233	0.267	---	---	10.2	1979
1980	---	---	0.283	13.0	1.22	0.213	0.054	0.132	0.070	0.108	---	---	1.85	1980
1981	---	---	1.57	2.21	1.28	1.25	3.16	0.269	0.045	0.074	---	---	1.23	1981
1982	---	---	0.046	4.48	1.48	0.484	0.285	0.884	0.117	0.514	---	---	1.00	1982
1983	---	---	0.362	34.2	9.69	15.4	9.84	1.22	0.267	0.325	---	---	8.82	1983
1984	---	---	2.11	3.81	3.24	7.29	5.75	0.551	0.197	0.430	---	---	2.91	1984
1985	---	---	0.989	21.7	4.11	3.17	0.875	1.13	1.73	2.58	---	---	4.48	1985
1986	---	---	7.14	27.1	21.4	4.30	2.85	1.55	0.459	0.628	---	---	8.16	1986
MEAN	---	---	1.00	16.8	10.2	7.14	3.97	1.17	0.930	1.13	4.58	---	4.29	MEAN

LOCATION - LAT 51 15 45 N DRAINAGE AREA, 2 870 km²
LONG 100 00 39 W REGULATED

VALLEY RIVER NEAR DAUPHIN - STATION NO. OSLJO10

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1948	---	225 ON APR 26	---	---	1948
1949	---	24.8 B ON APR 7	0 ON SEP 28 *	---	1949
1950	---	84.3 B ON APR 20	---	---	1950
1951	---	86.6 B ON APR 7	---	---	1951
1952	---	47.3 B ON APR 6	0 ON AUG 22	---	1952
1953	---	95.7 ON JUN 4	---	---	1953
1954	---	89.2 ON JUL 1	---	---	1954
1955	---	89.4 B ON APR 7	---	---	1955
1956	---	75.3 ON MAY 6	---	---	1956
1957	---	84.1 ON APR 25	0 ON SEP 29	130 000	1957
1958	---	24.0 B ON APR 4	0 ON AUG 15	26 300	1958
1959	---	23.8 ON JUN 18	0 B ON MAR 1	60 100	1959
1960	---	80.7 ON APR 15	0 ON SEP 20	127 000	1960
1961	---	1.96 ON APR 25	0 B ON MAR 1	6 050	1961
1962	---	34.3 B ON APR 21	0 B ON MAR 1	16 300	1962
1963	---	8.56 ON APR 8	0 B ON MAR 1	25 800	1963
1964	---	16.7 B ON APR 17	0 B ON MAR 1	16 400	1964
1965	---	36.5 ON APR 15	0 B ON MAR 1	49 500	1965
1966	---	86.8 B ON APR 3	0 ON SEP 23	119 000	1966
1967	---	143 ON APR 28	0 ON AUG 18	103 000	1967
1968	---	16.2 B ON MAR 29	0.003 ON SEP 24	23 700	1968
1969	---	85.8 B ON APR 15	0 B ON MAR 1	50 000	1969
1970	116 AT 01:35 CST ON APR 27	110 ON APR 26	0.184 ON SEP 20	173 000	1970
1971	148 B AT 05:06 CST ON APR 12	130 B ON APR 12	0.031 ON SEP 23	109 000	1971
1972	---	80.0 B ON APR 18	0.258 ON AUG 13	98 800	1972
1973	5.10 AT 00:38 CST ON OCT 5	4.76 ON OCT 5	0.1168 ON MAR 15	26 500	1973
1974	289 AT 14:03 CST ON APR 20	282 ON APR 20	0.221 ON SEP 28	269 000	1974
1975	82.1 AT 16:00 CST ON APR 30	77.8 ON APR 30	0.4338 ON MAR 1	187 000	1975
1976	---	81.2 ON APR 7	0.105 ON OCT 18	214 000	1976
1977	---	4.83 ON APR 15	0.127 ON JUL 7	28 100	1977
1978	---	28.1 B ON APR 13	0.113 ON AUG 12	49 200	1978
1979	464 AT 09:41 CST ON APR 23 *	385 ON APR 23 *	0.048 ON OCT 10	215 000	1979
1980	---	39.3 B ON APR 10	0 ON JUL 30	39 200	1980
1981	48.1 AT 08:44 CST ON JUL 4	38.1 ON JUL 4	0.005 ON SEP 20	26 100	1981
1982	---	13.4 B ON APR 17	0 B ON MAR 1	21 200	1982
1983	333 AT 15:05 CST ON APR 25	291 ON APR 25	0.018 ON OCT 6	187 000	1983
1984	28.4 AT 21:33 CST ON JUN 26	28.2 ON JUN 26	0 ON AUG 28	61 600	1984
1985	56.1 B AT 17:57 CST ON APR 10	47.3 ON APR 13	0.035 ON AUG 3	94 800	1985
1986	118 B AT 12:38 CST ON APR 1	101 B ON APR 1	0.387 ON SEP 20	173 000	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		90 900	MEAN

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	6.14	21.7	9.08	10.4	2.95	1.98	0.882	---	---	---	1956
1958	---	---	0.635	2.62	0.785	0.417	0.170	0.014	0.087	0.028	---	---	0.585	1958
1959	---	---	0.243	1.80	0.781	3.05	4.15	0.801	0.506	0.785	---	---	1.52	1959
1960	---	---	0.204	14.4	5.31	6.14	1.41	0.609	0.342	0.474	---	---	3.57	1960
1961	---	---	0.352	0.597	0.470	0.073	0.178	0.089	0.027	0.024	---	---	0.224	1961
1963	---	---	---	---	---	---	---	0	0	---	---	---	---	1963
1964	---	---	0.057	1.70	1.09	0.050	0	0.503	0.003	0	---	---	0.423	1964
1965	---	---	0.071	4.25	1.70	0.815	0.551	0.480	0.730	0.919	---	---	1.19	1965
1966	---	---	0.488	8.13	4.99	3.35	3.24	0.848	0.171	0.234	---	---	2.78	1966
1967	---	---	0.427	8.96	4.45	0.448	0.133	0.074	0.001	0.318	---	---	1.84	1967
1968	---	---	1.31	2.74	0.458	0.082	0.084	0.017	0.015	0	---	---	0.584	1968
1969	---	---	0.285	7.43	0.589	0.178	1.05	0.740	0.132	0.555	---	---	1.35	1969
1970	---	---	0.385	13.0	11.3	4.27	3.47	1.95	0.492	0.846	---	---	4.43	1970
1971	---	---	0.688	10.2	2.18	4.14	1.96	0.656	0.157	0.896	---	---	2.58	1971
1972	---	---	0.790	11.8	5.14	2.30	0.889	0.508	0.543	0.573	---	---	2.77	1972
1973	---	---	0.682	1.13	0.459	0.772	0.949	0.673	0.728	1.11	---	---	0.813	1973
1974	---	---	0.806	15.1	20.1	10.2	1.84	0.803	0.236	0.336	---	---	6.10	1974
1975	---	---	0.068	13.0	12.3	8.15	3.08	0.953	3.29	3.13	---	---	5.45	1975
1976	---	---	0.681	14.1	5.15	15.5	6.28	1.59	1.22	0.219	---	---	5.54	1976
1977	---	---	0.511	1.07	0.883	0.406	0.427	0.361	0.768	2.11	---	---	0.818	1977
1978	---	---	0.728	6.84	1.92	0.925	0.523	0.505	0.250	0.259	---	---	1.48	1978
1979	---	---	0.170	14.3	11.6	10.4	2.04	0.261	0.668	0.401	---	---	4.95	1979
1980	---	---	0.362	5.57	0.936	0.136	0.088	0.161	0.017	0.191	---	---	0.921	1980
1981	---	---	0.630	0.791	0.628	0.673	2.54	0.341	0.043	0.105	---	---	0.722	1981
1982	---	---	0.180	1.99	0.862	0.279	0.126	0.389	0.134	0.718	---	---	0.582	1982
1983	---	---	0.391	10.2	4.61	5.34	5.27	1.13	0.127	0.368	---	---	3.53	1983
1984	---	---	1.07	1.58	1.43	3.42	4.37	0.542	0.387	0.185	---	---	1.82	1984
1985	---	---	0.394	11.2	3.00	2.07	0.908	0.379	1.34	1.73	---	---	2.59	1985
1986	---	---	3.82	10.8	7.73	3.20	2.58	1.89	0.885	1.25	---	---	3.85	1986
MEAN	---	---	0.800	7.23	4.73	3.46	2.09	0.700	0.518	0.835	--	---	2.33	MEAN

LOCATION - LAT 51 11 10 N DRAINAGE AREA, 1 730 km²
LONG 100 41 40 W REGULATED

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	46.2 ON MAY 5	---	---	1956
1958	---	6.288 ON APR 4	0 ON AUG 2 *	12 400	1958
1959	---	11.1 ON JUN 17	0.028 ON SEP 23	32 200	1959
1960	---	39.6 ON APR 12	0 ON SEP 11	75 500	1960
1961	---	1.61 ON JUL 18	0 ON JUL 4	4 740	1961
1963	---	---	0 ON AUG 21	---	1963
1964	---	3.178 ON APR 15	0 ON JUN 14	8 970	1964
1965	---	14.7 ON APR 14	0 ON JUL 10	25 200	1965
1966	---	23.6 ON APR 5	0.102 ON SEP 5	58 500	1966
1967	---	37.7 ON APR 27	0 ON SEP 3	38 800	1967
1968	---	5.498 ON MAR 27	0 ON AUG 15	12 400	1968
1969	---	46.7 B ON APR 13	0.005 ON SEP 20	28 700	1969
1970	---	48.4 B ON APR 25	0.281 ON SEP 20	83 800	1970
1971	---	57.8 ON APR 10	0.037 ON SEP 21	84 500	1971
1972	---	37.8 ON APR 17	0.181E ON OCT 30	58 600	1972
1973	---	5.86 ON AUG 28	0.218 ON AUG 19	17 200	1973
1974	---	88.1 ON APR 20 *	0.026 ON SEP 19	129 000	1974
1975	---	50.4 ON APR 21	0.0888 ON MAR 1	115 000	1975
1976	---	38.2 B ON APR 6	0.183 ON OCT 6	117 000	1976
1977	---	2.97 ON OCT 13	0.071 ON JUL 10	17 300	1977
1978	---	20.2 B ON APR 18	0.085 ON SEP 27	31 300	1978
1979	89.1 B AT 05 21 CST ON APR 22 *	85.7 B ON APR 22	0 ON AUG 31	105 000	1979
1980	---	15.0 B ON APR 8	0 ON JUN 24	19 500	1980
1981	58.9 AT 12 48 CST ON JUL 2	35.0 ON JUL 2	0 ON SEP 13	15 300	1981
1982	---	7.528 ON APR 15	0 ON JUL 10	12 300	1982
1983	---	79.4 A ON APR 24	0.074 ON SEP 23	74 700	1983
1984	8.93 AT 20 11 CST ON JUL 2	8.86 ON JUL 3	0.049 ON OCT 10	34 200	1984
1985	51.9 B AT 15 00 CST ON APR 11	38.3 B ON APR 11	0.037 ON AUG 9	54 900	1985
1986	---	48.7 B ON APR 2	0.431 ON SEP 1	83 800	1986
				49 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	---	---	---	9.01	11.7	5.72	2.87	1.20	0.157	0.145	---	---	---	1955
MEAN	---	---	---	9.01	11.7	5.72	2.87	1.30	0.157	0.145	---	---	---	MEAN

LOCATION - LAT 51 11 05 N DRAINAGE AREA, 1 220 km²
LONG 100 51 08 W NATURAL FLOW

VALLEY RIVER WEST OF GRANDVIEW - STATION NO 05LJ018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	17.88 ON APR 9 *	---	---	1955
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

VERMILION RIVER NEAR DAUPHIN - STATION NO 05LJ012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	13.9	0.849	3.88	0.890	0.142	0.151	---	---	---	1948
1949	---	---	---	5.09	1.01	2.10	2.36	0.528	0.053	0.115	---	---	---	1949
1950	---	---	---	5.43	11.9	5.83	4.30	0.585	0.308	0.860	---	---	---	1950
1951	---	---	---	10.0	4.41	1.19	0.485	0.330	0.480	1.85	---	---	---	1951
1952	---	---	0.332	11.3	1.18	0.373	0.175	0.103	1.31	0.395	---	---	1.86	1952
1953	---	---	---	10.8	9.86	19.5	3.01	0.768	1.02	1.59	0.823	---	---	1953
1954	---	---	---	5.00	5.80	9.42	4.25	0.780	2.68	3.11	1.08	---	---	1954
1955	---	---	---	12.7	9.70	5.55	0.851	0.158	0.110	0.225	---	---	---	1955
1956	---	---	0.028	6.82	10.2	15.2	7.80	1.14	0.743	0.567	---	---	5.28	1956
1957	---	---	0.326	18.5	5.32	2.23	0.372	0.241	0.219	0.233	---	---	3.39	1957
1958	---	---	0.794	2.26	0.430	0.152	0.384	0.054	0.036	0.045	---	---	0.516	1958
1959	---	---	0.476	1.84	2.97	1.70	0.675	0.048	0.087	0.457	---	---	1.00	1959
1960	---	---	0.113	14.2	9.89	1.85	0.082	0.065	0.034	0.039	---	---	3.24	1960
1961	---	---	0.032	0.505	0.757	0.088	0.071	0.020	0.063	0.122	---	---	0.202	1961
1962	---	---	0.028	3.81	0.836	0.473	0.086	0.092	0.121	0.070	0.104	---	0.627	1962
1963	---	---	1.31	6.96	2.75	4.09	1.01	0.101	0.157	0.065	---	---	2.03	1963
1964	---	---	0.028	6.68	3.39	0.204	0.154	0.025	0.039	0.132	---	---	1.32	1964
1965	---	---	0.100	7.32	4.98	2.51	0.768	0.184	5.70	1.26	---	---	2.82	1965
1966	---	---	2.10	10.0	8.35	0.956	0.811	0.836	0.122	0.206	---	---	2.88	1966
1967	---	---	0.108	8.90	11.6	0.848	0.101	0.261	0.061	0.100	---	---	2.74	1967
1968	---	---	1.20	1.91	1.04	0.354	1.45	1.08	0.441	0.239	---	---	0.984	1968
1969	---	---	0.139	7.29	0.984	5.62	4.01	0.176	0.186	0.574	---	---	2.34	1969
1970	---	---	0.197	10.4	18.1	3.20	1.09	0.186	0.523	0.798	---	---	4.31	1970
1971	---	---	0.198	10.8	1.73	5.31	1.83	0.585	0.163	1.23	---	---	2.65	1971
1972	---	---	1.27	10.2	4.92	0.577	0.111	0.086	0.091	0.218	---	---	2.16	1972
1973	---	---	0.454	0.741	0.379	0.420	0.059	0.044	1.75	2.78	---	---	0.827	1973
1974	---	---	0.232	26.4	24.2	2.22	0.231	0.180	0.306	0.371	---	---	6.73	1974
1975	---	---	0.088	10.2	6.01	2.65	0.451	2.00	15.9	4.21	---	---	5.14	1975
1976	---	---	0.418	21.4	2.39	10.7	0.909	0.171	0.082	0.240	---	---	4.46	1976
1977	---	---	0.102	0.910	0.484	0.102	1.21	0.341	1.93	0.855	---	---	0.739	1977
1978	---	---	0.287	10.4	2.72	1.10	0.532	0.063	0.313	0.887	---	---	2.01	1978
1979	---	---	0.080	18.8	18.6	3.02	0.461	0.056	0.078	0.108	---	---	5.13	1979
1980	---	---	0.119	3.89	0.259	0.081	0.171	0.370	0.808	0.463	---	---	0.748	1980
1981	---	---	0.889	1.57	1.98	3.24	0.314	0.035	0.014	0.380	---	---	1.02	1981
1982	---	---	0.142	7.38	1.70	0.338	0.186	0.303	0.063	1.21	---	---	1.40	1982
1983	---	---	0.096	14.5	6.46	1.99	1.29	0.411	0.084	0.077	---	---	3.09	1983
1984	---	---	0.281	0.535	3.48	0.947	0.092	0.011	0.058	0.412	---	---	0.729	1984
1985	---	---	1.43	13.5	2.27	1.47	0.234	1.58	1.22	1.85	---	---	2.91	1985
1986	---	---	4.30	9.75	17.3	0.853	0.374	0.437	0.250	0.302	---	---	4.17	1986
MEAN	---	---	0.547	8.64	5.89	3.08	1.19	0.388	0.961	0.733	0.669	---	2.48	MEAN

LOCATION - LAT 51 11 00 N DRAINAGE AREA 674 km^2
LONG 100 00 45 W REGULATED SINCE 1979

VERMILION RIVER NEAR DAUPHIN - STATION NO 05LJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	66.3 ON APR 25	---	---	1948
1949	---	17.9 ON APR 12	---	---	1949
1950	---	41.1 ON MAY 14	---	---	1950
1951	---	48.7 ON APR 29	---	---	1951
1952	---	39.4 B ON APR 7	0 B ON MAR 1 *	39 400	1952
1953	---	75.0 ON JUN 3	---	---	1953
1954	---	34.5 ON JUN 5	---	---	1954
1955	---	37.9 ON MAY 5	---	---	1955
1956	---	148 ON JUN 19	0.0288 ON MAR 1	112 000	1956
1957	---	103 ON APR 25	0.0858 ON MAR 1	71 800	1957
1958	---	7.598 ON MAR 29	0 B ON MAR 1	10 900	1958
1959	---	9.43 ON MAY 4	0 B ON MAR 1	21 300	1959
1960	---	44.5 ON MAY 27	0.034 ON AUG 28	58 600	1960
1961	---	2.41 ON MAY 9	0.008 ON AUG 7	4 280	1961
1962	---	26.2 ON APR 18	0.0288 ON MAR 1	13 300	1962
1963	---	27.8 B ON APR 8	0 B ON MAR 1	43 000	1963
1964	---	22.6 ON APR 27	0 ON JUL 27	27 900	1964
1965	---	42.5 ON APR 12	0.003E ON MAR 1	59 800	1965
1966	---	40.8 B ON MAR 31	0 0858 ON MAR 1	61 200	1966
1967	---	38.8 B ON APR 16	0 ON AUG 30	57 900	1967
1968	---	8.16 ON JUL 3	0 ON JUN 24	20 400	1968
1969	---	40.8 ON JUN 28	0.001 ON SEP 16	49 600	1969
1970	---	62.0 B ON APR 28	0.028 ON SEP 7	91 300	1970
1971	---	33.7 B ON APR 11	0.040 ON SEP 4	58 000	1971
1972	---	30.3 ON APR 22	0 ON SEP 14	45 700	1972
1973	---	13.5 ON OCT 4	0 ON AUG 1	17 500	1973
1974	---	170 ON APR 20 *	0 ON JUL 21	142 000	1974
1975	186 AT 01 04 CST ON SEP 20	153 ON SEP 20	0.048 ON JUL 18	109 000	1975
1976	---	87.2 ON JUN 14	0.037 ON SEP 15	84 500	1976
1977	---	9.71 ON JUL 12	0.008 ON JUL 8	15 700	1977
1978	---	28.6 B ON APR 10	0.025 ON SEP 6	42 600	1978
1979	209 AT 10 12 CST ON APR 22 *	164 ON APR 22	0 ON AUG 7	109 000	1979
1980	31.0 B AT 07 20 CST ON APR 5	27.6 B ON APR 5	0.004E ON SEP 3	15 800	1980
1981	11.2 AT 11 57 CST ON MAY 30	10.7 ON MAY 30	0 ON AUG 23	21 600	1981
1982	23.9 AT 11 30 CST ON APR 18	20.3 ON APR 18	0 B ON MAR 1	29 600	1982
1983	95.0 AT 12 32 CST ON APR 24	84.2 ON APR 24	0 ON SEP 16	85 300	1983
1984	9.09 AT 21 51 CST ON MAY 13	8.87 ON MAY 13	0 B ON MAR 1	15 400	1984
1985	50.8 B AT 08 25 CST ON APR 3	40.2 B ON APR 3	0.077 ON AUG 11	81 700	1985
1986	134 AT 20 32 CST ON MAY 6	103 ON MAY 7	0.1478 ON MAR 11	88 300	1986
				52 600	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WASKADA CREEK NEAR CRANMER - STATION NO 05NF014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	1.89	0.246	0.048	0.170	0	0	0	---	---	0.285	1974
1975	---	---	0	1.78	0.281	0.050	0	0	0.001	0.068	---	---	0.269	1975
1976	---	---	1.45	1.86	0.020	0	0	0	0	0	---	---	0.413	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.070	0	0	0	0	0	0	---	---	0.009	1978
1979	---	---	0	0.801	0.004	0	0	0	0	0	---	---	0.089	1979
1980	---	---	0	0.001	0	0	0	0	0.452	0.015	---	---	0.057	1980
1981	---	0.238	0.056	0	0	0	0	0	0	0	---	---	0.007	1981
1982	---	---	0.011	0.582	0	0.014	0	0	0	0.013	---	---	0.076	1982
1983	---	---	0.264	0.334	0.002	0	0	0	0	0	---	---	0.075	1983
1984	---	---	0.019	0.001	0.020	0	0	0	0	0.004	---	---	0.006	1984
1985	---	---	1.77	0.132	0	0.102	0.010	0	0	0	---	---	0.264	1985
1986	---	---	0.205	0.089	0.027	0	0.018	0.001	0	0	---	---	0.042	1986
MEAN	---	0.238	0.290	0.585	0.046	0.016	0.015	0	0.035	0.008	---	---	0.121	MEAN

LOCATION - LAT 48 07 40 N DRAINAGE AREA 104 km^2
LONG 100 42 50 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.12 AND 0 m^3/s OCCURRED IN FEBRUARY

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	7.67 ON APR 11	0B ON MAR 1 *	5 610	1974
1975	---	8.75 ON APR 29	0B ON MAR 1	5 690	1975
1976	---	19.3 ON MAR 31 *	0B ON MAR 1	8 730	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0.6858 ON APR 4	0B ON MAR 1	182	1978
1979	---	9.86 B ON APR 19	0B ON MAR 1	2 090	1979
1980	3.97 AT 20 21 CST ON SEP 13	3.33 ON SEP 14	0B ON MAR 1	1 210	1980
1981	---	0.5008 ON MAR 1	0 ON MAR 22	151	1981
1982	9.87 AT 00 29 CST ON APR 13	5.82 ON APR 13	0B ON MAR 1	1 610	1982
1983	2 548 AT 11 10 CST ON APR 1	1.82 B ON MAR 31	0B ON MAR 1	1 580	1983
1984	1.45 AT 12 03 CST ON MAY 5	0.566 ON MAY 5	0B ON MAR 1	118	1984
1985	10.5 AT 15 54 CST ON MAR 20 *	8.92 ON MAR 19	0B ON MAR 1	5 370	1985
1986	1.178 AT 06 36 CST ON APR 19	0.870 ON APR 19	0B ON MAR 1	898	1986
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 560	MEAN

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.141	0.189	0.051	0	0.121	0.121	0	---	---	0.075	1965
1966	---	---	0.251	0.018	0.123	0.037	0.293	0	0	0	---	---	0.091	1966
1967	---	---	0.150	0.076	0.024	0	0	0	0	0	---	---	0.031	1967
1968	---	---	0.013	0	0	0	0	0.022	0.015	0	---	---	0.006	1968
1969	---	---	0	1.35	0.014	0	0.013	0	0	0	---	---	0.169	1969
1970	---	---	0.253	0.533	0.068	0	0	0	0	0	---	---	0.106	1970
1971	---	---	0	0.065	0	0.380	0.194	0	0	0	---	---	0.075	1971
1972	---	---	0.337	0.142	0.001	0.436	0	0.002	0	0	---	---	0.114	1972
1973	---	---	0.011	0	0	0.003	0	0	0	0	---	---	0.002	1973
MEAN	---	---	0.113	0.257	0.044	0.089	0.056	0.018	0.015	0	---	---	0.074	MEAN

LOCATION - LAT 49 07 05 N DRAINAGE AREA, 88.1 km^2
LONG 100 41 20 W NATURAL FLOW

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	2.09 ON AUG 27	0 ON MAR 1 *	1 590	1965
1966	---	1.14 ON JUL 6	0B ON MAR 1	1 930	1966
1967	---	0.7828 ON MAR 28	0B ON MAR 1	863	1967
1968	---	0.285 ON AUG 27	0B ON MAR 1	131	1968
1969	---	7.42 ON APR 10 *	0B ON MAR 1	3 570	1969
1970	---	3.11 ON MAR 28	0B ON MAR 1	2 240	1970
1971	---	2.73 ON JUN 15	0B ON MAR 1	1 590	1971
1972	---	3.68 ON JUN 15	0B ON MAR 1	2 410	1972
1973	---	0.159 ON MAR 12	0 ON MAR 1	37.0	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 570	MEAN

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LH002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	---	---	---	---	156	154	158	---	---	1923
1924	---	---	---	75.9	109	185	134	103	89.5	93.3	94.3	---	113	1924
1925	---	---	---	53.3	128	204	182	151	148	127	---	---	142	1925
1926	---	---	---	70.8	101	142	97.4	75.0	88.4	84.8	---	---	88.5	1926
1927	---	---	---	---	104	182	177	148	152	152	---	---	---	1927
1928	---	---	---	---	126	194	157	124	104	--	---	---	---	1928
MEAN	---	---	---	66.7	114	181	149	120	120	118	126	---	115	MEAN

LOCATION - LAT 51 48 50 N DRAINAGE AREA, 55.100 km^2
LONG 99 32 00 W NATURAL FLOW

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO 05LH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	---	---	---	1923
1924	---	213 ON JUN 5	83.1 ON APR 26	2 080 000	1924
1925	---	354 ON JUN 21 *	43.38 ON APR 1	2 830 000	1925
1926	---	215 ON JUN 7	41.9 ON OCT 7 *	1 840 000	1926
1927	---	221 ON JUN 9	---	---	1927
1928	---	249 ON JUN 8	---	---	1928
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 120 000	MEAN

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO 05LH004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	94.3	---	---	---	1928
1929	---	---	---	---	80.8	115	91.7	61.2	40.5	37.4	---	---	---	1929
1930	---	---	---	---	89.8	80.9	63.5	47.3	40.5	---	---	---	---	1930
MEAN	---	---	---	---	75.3	98.0	77.6	54.3	40.5	65.9	---	---	---	MEAN

LOCATION - LAT 51 50 00 N LONG 99 33 00 W DRAINAGE AREA, 55 100 km^2 NATURAL FLOW

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO 05LH004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	102 ON JUN 15 *	---	---	1930
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

WATERHEN RIVER NEAR WATERHEN - STATION NO 05LH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1950	---	---	---	---	---	---	---	---	---	---	---	---	---	1950
1951	19.6	14.0	8.29	---	---	113	89.5	83.3	80.5	73.3	51.4	42.8	---	1951
1952	24.9	12.3	11.8	---	---	148	120	102	81.8	102	80.1	68.5	---	1952
1953	42.1	27.5	22.0	31.8	116	150	200	189	204	198	202	179	131	1953
1954	144	123	117	159	248	277	---	---	286	291	273	249	---	1954
1955	188	139	127	233	285	317	277	234	193	176	149	105	202	1955
1956	88.5	87.3	72.5	111	188	190	187	161	163	163	148	88.5	134	1956
1957	80.7	38.7	28.7	88.1	159	146	132	116	103	93.1	80.8	57.8	91.4	1957
1958	30.8	17.3	15.8	79.8	102	98.1	78.2	63.1	54.3	52.7	44.2	11.1	54.2	1958
1959	3.88	0.413	0.058	15.0	67.5	96.5	88.0	71.4	89.8	73.6	44.3	32.1	47.2	1959
1960	24.6	15.0	8.17	44.7	115	138	124	104	79.8	71.4	75.8	27.0	89.2	1960
1961	12.4	3.04	3.78	35.1	84.5	82.5	61.5	35.5	28.4	21.9	19.1	3.40	33.1	1961
1962	0.037	0	0	2.35	52.8	44.0	36.4	19.9	18.9	21.8	14.8	4.21	18.0	1962
1963	0.185	0.009	0.185	11.5	34.0	32.1	27.4	15.8	11.2	11.2	7.62	0.548	12.7	1963
1964	0.071	0.122	0.142	4.04	26.6	26.1	13.7	12.8	13.3	18.2	18.9	3.37	11.1	1964
1965	0.077	0.025	0	4.65	51.5	88.0	76.8	82.4	80.3	65.7	55.4	39.0	40.7	1965
1966	28.6	21.4	9.14	29.5	108	136	141	139	126	125	88.9	59.5	83.1	1966
1967	58.2	52.9	52.1	82.6	153	188	172	151	115	108	92.0	55.8	107	1967
1968	37.3	26.2	18.4	68.0	125	118	111	108	103	103	87.2	53.1	80.0	1968
1969	33.4	25.1	19.8	70.0	123	122	100	88.9	72.1	73.5	55.3	37.5	68.7	1969
1970	28.0	17.3	10.2	18.6	88.3	125	134	130	117	118	118	79.9	83.1	1970
1971	66.5	53.8	47.0	107	180	176	150	129	110	117	92.4	84.4	109	1971
1972	47.6	42.8	34.6	72.7	173	169	154	133	115	102	72.8	30.3	95.8	1972
1973	15.3	6.53	7.50	54.6	105	127	124	106	99.4	95.6	88.0	40.9	71.2	1973
1974	27.5	22.0	17.9	39.4	172	207	181	180	149	139	126	85.5	112	1974
1975	74.6	56.8	51.7	91.4	174	183	157	135	129	129	128	76.7	118	1975
1976	62.8	54.0	45.6	110	159	169	158	141	123	113	82.5	40.6	105	1976
1977	26.4	16.4	14.3	88.1	122	113	96.8	91.6	91.5	92.8	77.6	47.6	71.8	1977
1978	35.3	23.9	17.6	58.5	126	123	101	83.0	70.7	73.7	58.4	30.9	67.0	1978
1979	17.8	9.85	7.45	17.3	110	180	171	146	125	120	88.1	84.7	88.8	1979
1980	52.4	41.5	30.0	96.6	133	105	79.7	87.8	82.4	80.8	53.0	23.5	67.1	1980
1981	19.8	2.83	8.06	38.1	71.8	72.4	56.8	39.7	23.2	18.7	29.5	21.7	33.7	1981
1982	2.71	0.425	0.826	5.35	61.8	74.4	69.2	52.2	41.2	48.8	33.1	15.4	34.2	1982
1983	12.8	7.48	5.12	8.77	102	131	133	120	107	100	85.8	48.7	72.1	1983
1984	23.7	17.8	18.2	85.7	167	171	151	124	108	109	74.8	52.7	93.0	1984
1985	34.0	33.4	36.3	108	152	149	125	118	111	107	70.6	33.9	89.8	1985
1986	26.8	19.0	15.5	84.0	163	158	138	125	109	102	67.9	45.6	88.1	1986
MEAN	37.5	28.8	24.5	82.4	127	137	120	105	99.0	96.9	80.5	52.9	78.2	MEAN

LOCATION - LAT 51 51 10 N LONG 99 32 50 W DRAINAGE AREA, 55 100 km^2 NATURAL FLOW

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	---	---	---	1952
1953	---	289 ON SEP 3	19.3 B ON MAR 26	4 120 000	1953
1954	---	---	112 B ON APR 1	---	1954
1955	---	337 ON JUN 9 *	89.2 B ON DEC 25	6 350 000	1955
1956	---	224 ON MAY 30	59.5 B ON MAR 31	4 240 000	1956
1957	---	200 ON MAY 21	25.8 B ON MAR 22	2 880 000	1957
1958	---	178 ON MAY 25	5.78 B ON DEC 30	1 710 000	1958
1959	152 AT 14 30 CST ON JUN 28	132 ON JUN 28	0 B ON FEB 17 *	1 490 000	1959
1960	173 AT 15 00 CST ON JUN 1	153 ON JUN 14	7.08 B ON MAR 28	2 190 000	1960
1961	---	102 ON MAY 24	0.0488 ON DEC 25	1 040 000	1961
1962	---	87.7E ON MAY 18	0 B ON JAN 30	569 000	1962
1963	80.7 ON MAY 20	84.0 ON MAY 18	0 B ON FEB 17	401 000	1963
1964	69.7 AT 13 50 CST ON MAY 19	44.5 ON MAY 11	0.0598 ON JAN 7	352 000	1964
1965	129 AT 08 00 CST ON MAY 26	122 ON MAY 26	0 B ON MAR 4	1 280 000	1965
1966	177 AT 18 45 CST ON JUN 2	158 ON JUN 2	3.77 B ON MAR 31	2 520 000	1966
1967	246 AT 11 05 CST ON JUN 21	220 ON JUN 21	41.6 B ON DEC 31	3 380 000	1967
1968	209 AT 17 15 CST ON MAY 15	187 ON MAY 15	15.8 B ON MAR 22	2 530 000	1968
1969	174 AT 03 54 CST ON MAY 19	145 ON MAY 31	17.6 B ON APR 4	2 180 000	1969
1970	202 AT 18 36 CST ON MAY 25	185 ON MAY 25	8.92 B ON APR 1	2 620 000	1970
1971	235 AT 13 47 CST ON MAY 29	218 ON MAY 10	44.7 B ON MAR 25	3 430 000	1971
1972	236 AT 16 19 CST ON JUN 14	203 ON JUN 14	22.9 B ON DEC 27	3 030 000	1972
1973	173 AT 20 54 CST ON JUN 19	162 ON JUN 19	2.97 B ON MAR 2	2 250 000	1973
1974	261 AT 20 21 CST ON JUN 14 *	227 ON JUN 14	9.15 B ON APR 15	3 530 000	1974
1975	217 AT 22 51 CST ON JUN 4	208 ON JUN 5	50.7 B ON MAR 15	3 850 000	1975
1976	212 AT 19 38 CST ON JUN 13	199 ON JUN 14	34.6 B ON DEC 28	3 320 000	1976
1977	170 AT 18 16 CST ON JUN 30	136 ON MAY 18	13.0 B ON MAR 8	2 260 000	1977
1978	153 AT 17 00 CST ON MAY 31	150 ON MAY 31	15.7 B ON MAR 26	2 110 000	1978
1979	229 AT 23 30 CST ON JUN 21	208 ON JUN 21	5.29 B ON APR 11	2 790 000	1979
1980	155 E ON MAY 5	155 E ON MAY 5	12.6 B ON DEC 31	2 120 000	1980
1981	135 AT 04 15 CST ON JUN 18	103 ON JUN 18	0.1738 ON FEB 16	1 080 000	1981
1982	125 AT 04 53 CST ON JUN 7	109 ON JUN 7	0.3808 ON FEB 20	1 080 000	1982
1983	175 AT 16 08 CST ON MAY 28	160 ON JUN 15	2.73 B ON APR 5	2 270 000	1983
1984	210 AT 08 58 CST ON MAY 11	196 ON JUN 23	16.9 B ON MAR 11	2 940 000	1984
1985	---	207 E ON JUN 27	29.0 B ON DEC 31	2 830 000	1985
1986	205 AT 18 28 CST ON MAY 31	204 A ON JUN 3	13.9 B ON MAR 13	2 780 000	1986
				2 470 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	1.72	1.34	1.11	---	---	8.35	5.84	4.50	10.1	8.23	5.47	1.97	---	1977
1978	0.976	0.690	0.500	0.505	48.1	17.9	35.1	48.1	47.8	33.3	10.3	3.84	20.8	1978
1979	1.69	0.976	0.676	0.857	24.0	57.9	81.7	18.7	14.5	22.1	6.52	2.81	17.8	1979
1980	1.24	0.890	0.788	20.2	42.2	43.5	50.4	54.1	44.9	26.5	3.84	2.67	24.3	1980
1981	2.14	1.60	1.16	0.915	51.1	34.0	16.3	16.8	8.86	20.6	4.70	2.08	13.5	1981
1982	1.64	1.23	0.830	1.33	82.5	59.6	18.1	18.3	19.1	19.4	7.53	4.38	19.6	1982
1983	3.15	2.27	1.85	1.13	25.1	147	18.7	21.0	54.3	30.1	13.1	5.44	26.8	1983
1984	3.56	2.45	1.51	36.3	81.4	42.5	11.7	5.81	4.89	5.44	2.72	1.55	16.6	1984
1985	1.10	0.889	0.724	15.5	---	---	---	5.47	4.71	5.26	1.50	0.551	---	1985
1986	0.891	0.715	0.887	0.858	83.2	49.2	33.2	50.9	25.0	13.2	6.14	2.77	22.5	1986
MEAN	1.81	1.31	0.982	8.61	54.7	51.1	27.9	24.4	23.5	18.4	6.15	2.79	20.2	MEAN

LOCATION - LAT. 57 01 33 N, LONG 93 26 54 W
DRAINAGE AREA, 2 280 km^2
NATURAL FLOW

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	---	---	---	1977
1978	---	114 ON AUG 16	0.4538 ON MAR 23	655 000	1978
1979	128 AT 23 17 CST ON JUL 17	124 ON JUL 17	0.6128 ON MAR 28	561 000	1979
1980	---	134 ON JUL 28	0.7388 ON MAR 22	769 000	1980
1981	---	1148 ON MAY 21	0.8508 ON APR 12	424 000	1981
1982	---	2138 ON MAY 5	0.2838 ON APR 25	618 000	1982
1983	---	3498 ON MAY 31 *	0.5658 ON MAY 20	845 000	1983
1984	219 AT 18 00 CST ON MAY 19 *	217 ON MAY 19	1.10 B ON APR 8	526 000	1984
1985	---	---	0.2638 ON DEC 31 *	---	1985
1986	---	185E ON MAY 17	0.8558 ON APR 26	710 000	1986
				639 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO 05LL001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	1.72	0.581	---	---	---	---	---	---	---	---	1962
1963	---	---	0.285	0.600	0.551	0.834	0.241	0.160	0.059	0	---	---	0.339	1963
1964	---	---	0.008	0.812	0.379	0.331	0.147	0.080	0.513	0.099	---	---	0.293	1964
1965	---	---	0.068	1.23	0.610	0.485	0.250	0.080	0.323	0.188	---	---	0.400	1965
1966	---	---	0.827	0.871	0.653	0.102	0.060	0.072	0.012	0.023	---	---	0.328	1966
1967	---	---	0.037	0.934	0.316	0.123	0.051	0.035	0.028	0.039	---	---	0.193	1967
1968	---	---	0.183	0.409	0.337	0.239	0.087	0.211	0.425	0.139	---	---	0.254	1968
1969	---	---	0.003	1.08	0.481	0.318	0.442	0.113	0.093	0.178	---	---	0.336	1969
1970	---	---	0.018	1.67	1.09	0.324	0.245	0.047	0.097	0.079	---	---	0.443	1970
1971	---	---	0.023	1.62	0.517	0.443	0.328	0.097	0.206	0.425	---	---	0.454	1971
1972	---	---	0.320	0.810	0.492	0.368	0.084	0.123	0.108	0.071	---	---	0.293	1972
1973	---	---	0.171	0.181	0.302	0.356	0.319	0.152	0.146	0.142	---	---	0.221	1973
1974	---	---	0.051	2.08	1.08	0.157	0.005	0.035	0.130	0.127	---	---	0.454	1974
1975	---	---	0.084	1.05	0.525	0.159	0.032	0.231	0.335	0.197	---	---	0.322	1975
1976	---	---	0.156	1.92	0.180	0.118	0.026	0.033	0.005	0.089	---	---	0.309	1976
1977	---	---	0.015	0.237	0.149	0.090	0.079	0.049	0.109	0.089	---	---	0.103	1977
1978	---	---	0.088	0.733	0.273	0.077	0.112	0.017	0.101	0.074	---	---	0.183	1978
1979	---	---	0.087	1.31	1.13	0.323	0.062	0.024	0.024	0.084	---	---	0.375	1979
1980	---	---	0.042	0.812	0.081	0.010	0.019	0.235	0.045	0.218	---	---	0.157	1980
1981	---	0.236	0.200	0.157	0.146	0.304	0.048	0.092	0.122	0.188	---	---	0.154	1981
1982	---	---	0.031	0.513	0.244	0.203	0.591	0.036	0.026	0.202	---	---	0.230	1982
1983	---	---	0.001	1.48	0.294	0.173	0.082	0.018	0.049	0.072	---	---	0.267	1983
1984	---	---	0.163	0.300	0.276	0.224	0.015	0.016	0	0.243	---	---	0.154	1984
1985	---	---	0.378	0.584	0.229	0.180	0.087	0.235	0.129	0.195	---	---	0.253	1985
1986	---	---	0.713	1.03	0.793	0.129	0.445	0.117	0.110	0.101	---	---	0.430	1986
MEAN	---	0.236	0.158	0.958	0.468	0.263	0.160	0.095	0.133	0.134	---	---	0.289	MEAN

LOCATION - LAT 49 58 00 N DRAINAGE AREA, 156 km²
LONG 98 56 50 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGES OF .633 AND 0 m³/s OCCURRED IN FEB

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO 05LL001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	9.80 ON APR 17	---	---	1962
1963	---	2.84 ON JUN 11	0 B ON MAR 1 *	7 190	1963
1964	---	5.86 ON SEP 2	0 ON AUG 17	6 190	1964
1965	---	7.28 ON APR 13	0 ON AUG 16	8 450	1965
1966	---	3.23 B ON MAR 31	0.003 ON JUL 21	6 830	1966
1967	---	1.86 B ON APR 15	0 ON AUG 4	4 090	1967
1968	---	1.13 B ON MAR 27	0 ON JUL 15	5 370	1968
1969	---	8.30 ON APR 12	0.0038 ON MAR 1	7 110	1969
1970	---	15.5 ON APR 26 *	0 ON AUG 23	8 390	1970
1971	---	6.57 B ON APR 8	0.006 ON AUG 31	8 820	1971
1972	---	1.59 B ON APR 12	0 ON OCT 15	6 200	1972
1973	1.64 AT 17 57 CST ON JUL 26	1.29 ON JUL 26	0.037 ON AUG 30	4 640	1973
1974	9.23 B AT 19 00 CST ON APR 17 *	7.50 ON APR 18	0 ON JUL 3	9 620	1974
1975	3.31 B AT 14 00 CST ON APR 16	2.31 ON APR 29	0.003 ON AUG 6	6 810	1975
1976	---	4.79 ON APR 7	0 ON JUL 29	6 540	1976
1977	0.677 AT 23 35 CST ON MAY 19	0.510 ON MAY 20	0 B ON MAR 1	2 180	1977
1978	1.28 B AT 21 58 CST ON APR 12	1.26 B ON APR 10	0 ON AUG 10	3 870	1978
1979	7.76 AT 16 49 CST ON APR 21	5.77 ON APR 21	0 ON AUG 27	7 940	1979
1980	---	1.96 B ON APR 6	0 ON JUN 4	3 320	1980
1981	---	0.633B ON MAR 30	0 ON JUL 28	3 260	1981
1982	3.81 AT 00 49 CST ON JUL 19	3.69 ON JUL 18	0 B ON MAR 1	4 870	1982
1983	7.96 B AT 15 16 CST ON APR 9	6.67 B ON APR 9	0 B ON MAR 1	5 880	1983
1984	2.64 AT 10 26 CST ON APR 14	1.93 ON APR 14	0 B ON MAR 1	3 270	1984
1985	4.43 AT 18 11 CST ON APR 4	2.30 B ON APR 4	0 B ON MAR 1	5 340	1985
1986	5.58 AT 04 44 CST ON MAY 7	4.32 ON MAY 7	0.030 ON JUL 9	9 100	1986
				6 130	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHIRLPOOL RIVER AT DANVERS - STATION NO 05MF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.432	0.272	0.084	0.171	0.857	0.114	---	---	1915
1916	---	---	---	3.53	2.57	2.39	1.83	0.376	0.244	0.486	0.572	0.283	---	1916
1917	---	---	---	1.42	2.17	0.295	0.343	0.122	0.452	0.104	0.126	---	---	1917
1918	---	---	---	0.729	0.749	0.498	0.184	0.217	0.810	0.172	0.146	0.085	---	1918
1919	0.057	0.028	0.057	2.56	1.05	0.255	0.413	0.174	0.523	---	---	---	---	1919
MEAN	0.057	0.028	0.057	2.06	1.63	0.774	0.628	0.191	0.440	0.355	0.240	0.184	---	MEAN

LOCATION - LAT 50 33 50 N DRAINAGE AREA, 208 km²
LONG 99 53 30 W NATURAL FLOW

WHIRLPOOL RIVER AT DANVERS - STATION NO. 05MF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	---	---	---	1916
1917	---	---	---	---	1917
1918	---	---	---	---	1918
1919	---	2.75 ON MAY 27	---	---	1919
		4.81 ON APR 11 *	0.0288 ON FEB 1 *		
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	56.5	26.8	28.1	21.7	49.1	45.2	28.3	2.83	---	1912
1913	---	---	---	45.3	23.7	11.9	15.8	11.1	6.49	15.8	6.51	1.42	---	1913
1914	0.425	0.283	0.566	12.7	24.2	30.6	20.1	3.14	4.86	17.0	7.76	2.10	10.3	1914
1915	0.632	0.342	0.683	13.1	31.4	19.7	12.6	2.36	1.26	7.56	5.94	2.83	8.24	1915
1916	0.998	0.615	0.443	58.0	56.9	22.3	30.2	11.5	7.86	9.36	10.1	1.42	17.5	1916
1917	0.870	0.822	0.466	20.3	23.7	6.20	4.85	5.56	4.62	1.99	1.54	0.537	5.94	1917
1918	---	---	---	8.78	9.37	18.1	6.00	3.89	1.29	2.87	15.2	2.56	---	1918
1919	0.857	0.531	2.84	27.6	16.9	8.50	58.7	7.04	11.3	7.80	3.23	1.05	12.3	1919
1920	0.207	0.185	0.784	21.2	36.5	44.9	4.95	0.278	0.542	4.75	3.95	1.24	9.92	1920
1921	0.841	1.01	1.32	54.0	34.4	15.8	18.8	25.3	20.8	12.8	5.88	1.88	16.1	1921
1922	0.839	0.834	0.848	25.1	78.2	27.8	14.3	14.7	18.9	9.13	18.1	---	---	1922
1923	---	---	---	---	57.7	21.2	13.5	10.2	6.96	7.05	3.40	---	---	1923
1924	---	---	---	---	50.6	20.2	7.87	11.8	3.38	9.86	---	---	---	1924
1925	---	---	---	42.5	30.5	93.0	33.6	11.8	11.2	18.0	---	---	---	1925
1926	---	---	---	8.78	8.78	35.2	30.4	14.0	20.5	39.3	18.4	---	---	1926
1927	---	---	---	---	122	40.2	18.2	4.85	7.83	17.0	15.6	---	---	1927
1928	---	---	---	---	13.7	48.7	86.0	22.7	8.11	5.87	4.26	3.82	---	1928
1929	2.89	3.40	5.10	7.51	8.87	14.0	9.63	2.75	3.08	3.52	---	---	---	1929
1930	---	---	---	---	80.2	16.7	11.5	1.51	1.45	3.12	---	---	---	1930
1931	---	---	---	29.2	23.3	7.89	1.80	0.884	1.41	2.65	4.28	---	---	1931
1932	---	---	---	---	25.4	3.15	2.29	1.16	0.568	1.88	---	---	---	1932
1933	---	---	---	---	35.1	19.4	0.635	0.478	0.631	0.657	---	---	---	1933
1934	---	---	---	---	10.5	3.47	0.914	0.629	0.741	1.11	---	---	---	1934
1935	---	---	---	---	20.4	8.10	3.88	1.27	1.23	2.28	---	---	---	1935
1936	---	---	---	---	14.9	3.85	0.711	0.520	0.977	---	---	---	---	1936
MEAN	0.807	0.845	1.45	28.7	35.4	22.7	18.7	7.85	7.84	10.3	9.53	1.95	11.5	MEAN

LOCATION - LAT 49 57 15 N DRAINAGE AREA, 3 740 km^2
LONG 95 58 00 W NATURAL FLOW

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	80.7 ON APR 12	---	---	1914
		83.7 ON JUN 4	0.2838 ON FEB 1	326 000	
1915	---	---	---	---	1915
1916	---	48.7 ON MAY 12	0.2838R ON FEB 15	280 000	1916
1917	---	146 ON APR 21	0.396 ON MAR 22	553 000	1917
1918	---	42.5 ON APR 23	0.1138 ON DEC 29	188 000	1918
1919	---	43.8 ON JUN 4	---	---	1919
		150 ON JUL 4	0.3118 ON FEB 2	387 000	
1920	---	81.8 ON JUN 1	0.028 ON AUG 28 *	313 000	1920
1921	---	85.88 ON APR 14	0.7938 ON JAN 1	508 000	1921
1922	---	130 ON MAY 20	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	122 ON JUN 6	---	---	1925
1926	---	101 ON JUN 25	---	---	1926
1927	---	184 ON MAY 12 *	---	---	1927
1928	---	107 ON JUL 11	---	---	1928
1929	---	25.0 ON MAY 31	---	---	1929
1930	---	125 ON MAY 15	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	85.28 ON APR 24	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
				382 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1 1986

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO 05PH005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	-	0.139	0.083	0.056	0.133	0.272	0.380	---	---	---	1973
1974	---	---	0	0.743	3.20	3.08	1.51	1.21	1.37	1.34	---	---	1.55	1974
1975	---	---	1.37	1.35	1.68	1.29	1.02	0.580	0.478	0.481	---	---	1.03	1975
1976	---	---	0.685	0.884	0.700	0.424	0.230	0.106	0.051	0.027	---	---	0.388	1976
1977	---	---	0.004	0.060	0.104	0.058	0.045	0.021	0.024	0.065	---	---	0.048	1977
1978	---	---	0	0.301	0.561	0.280	0.154	0.064	0.030	0.002	---	---	0.174	1978
1979	---	---	0	0.112	0.401	0.331	0.130	0.066	0.056	0.032	---	---	0.141	1979
1980	---	---	0.009	0.084	0.075	0.013	0.004	0.011	0.013	0.005	---	---	0.027	1980
MEAN	---	---	0.295	0.505	0.858	0.892	0.394	0.274	0.287	0.292	---	---	0.480	MEAN

LOCATION - LAT 49 16 50 N DRAINAGE AREA 297 km²
LONG 95 36 40 W REGULATED

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO 05PH005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	---	---	---	1973
1974	4.30 AT 12:00 CST ON MAY 23 *	4.19 ON MAY 23 *	0 B ON MAR 1 *	32 900	1974
1975	2.06 AT 03:25 CST ON MAY 5	2.03 ON MAY 4	0.422 ON OCT 13	21 800	1975
1976	1.45 AT 18:32 CST ON APR 17	1.16 ON APR 17	0.0038 ON OCT 30	8 200	1976
1977	0.311 AT 16:21 CST ON MAY 5	0.170 ON MAY 16	0 B ON MAR 1	1 010	1977
1978	0.8888 AT 09:28 CST ON APR 20	0.674 ON APR 27	0 B ON MAR 1	3 670	1978
1979	0.516 AT 05:00 CST ON JUN 2	0.470 ON MAY 11	0 B ON MAR 1	2 880	1979
1980	0.191 AT 23:59 CST ON APR 23	0.189 ON APR 23	0 ON JUL 11	557	1980
				10 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO 05PH003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	13.9	2.72	1.80	18.3	6.80	---	---	---	1942
1943	---	---	---	32.0	40.5	64.7	32.4	6.87	5.28	3.28	---	---	---	1943
1944	---	---	---	---	15.7	69.7	28.5	18.2	28.8	10.7	22.6	---	---	1944
1945	---	---	---	57.7	36.8	24.1	19.2	3.21	16.5	14.0	---	---	---	1945
1946	---	---	---	33.7	26.1	6.74	4.91	0.800	2.77	9.87	---	---	---	1946
1947	---	---	---	---	38.6	45.5	14.4	28.3	11.7	22.6	---	---	---	1947
1948	---	---	---	47.2	53.7	10.1	19.2	23.8	3.64	1.26	---	---	---	1948
1949	---	---	0	24.7	25.8	6.14	1.86	7.42	2.78	23.6	26.7	---	---	1949
1950	---	---	---	---	144	43.8	28.0	4.42	18.8	36.0	---	---	---	1950
1951	---	---	2.46	29.0	37.0	14.2	2.17	1.14	4.34	5.85	---	---	---	1951
1952	---	---	0.186	4.98	1.33	1.12	4.56	1.06	0.380	0.419	---	---	---	1952
1953	---	---	0.664	7.83	7.18	24.6	12.1	1.20	1.48	1.59	---	---	---	1953
1954	---	---	0.085	23.7	48.6	37.0	7.93	1.07	7.81	9.14	6.71	---	---	1954
1955	---	---	---	55.3	31.3	26.4	5.55	0.348	0.288	0.861	---	---	---	1955
1956	---	---	0.283	15.0	45.5	18.5	21.3	10.9	27.9	10.7	26.5	2.57	---	1956
1957	1.25	1.01	3.75	37.1	42.8	45.3	24.1	2.33	1.45	1.87	1.72	0.829	13.6	1957
1958	0.857	0.827	1.75	3.22	2.47	2.03	22.5	5.20	1.27	3.43	9.18	2.88	4.74	1958
1959	0.283	0.347	0.452	27.8	47.6	49.1	13.5	15.5	29.8	60.5	16.3	3.62	22.1	1959
1960	1.95	0.921	0.987	67.5	38.0	23.8	7.12	2.35	2.26	1.03	4.53	0.991	12.6	1960
1961	0.221	0.310	0.979	11.0	17.0	5.10	0.700	0.343	0.284	2.45	1.74	0.447	3.40	1961
1962	0.305	0.292	0.214	13.5	70.9	67.1	31.9	38.1	13.7	8.66	9.89	4.81	21.7	1962
1963	1.35	1.15	3.56	46.6	45.7	58.4	16.8	7.55	1.38	0.698	0.530	0.333	15.3	1963
1964	0.224	0.159	0.321	21.8	44.4	29.1	12.8	5.04	9.36	25.4	8.13	2.39	13.3	1964
1965	1.20	0.701	0.800	46.3	85.1	36.8	36.4	7.12	11.4	26.1	18.4	13.9	22.1	1965
1966	7.21	2.46	3.52	85.7	101	33.9	34.2	5.13	11.5	7.63	5.22	2.35	25.1	1966
1967	1.81	0.888	3.17	75.2	51.2	16.3	8.22	5.12	0.453	0.475	0.293	0.277	13.5	1967
1968	0.444	0.208	2.55	17.1	19.2	32.6	23.9	13.1	17.3	14.5	9.82	2.34	12.8	1968
1969	1.21	1.78	1.92	51.3	36.2	21.3	15.3	5.49	3.43	8.73	4.09	1.30	12.7	1969
1970	0.806	0.716	0.640	28.4	108	67.3	11.3	2.62	5.16	7.90	15.2	2.08	20.9	1970
1971	1.28	1.01	1.21	33.8	28.8	20.2	11.3	5.08	1.34	2.47	9.63	1.98	9.84	1971
1972	0.485	0.356	1.09	24.8	31.3	7.21	1.13	0.475	1.39	3.76	4.30	0.380	6.39	1972
1973	0.216	0.159	2.73	4.17	5.73	37.0	20.1	19.2	18.3	44.4	15.4	7.00	14.6	1973
1974	1.48	0.648	0.577	89.2	134	40.8	3.44	8.33	9.05	8.43	4.73	1.76	25.1	1974
1975	1.93	1.58	1.77	22.8	43.4	29.7	21.8	1.91	1.61	1.84	1.80	0.834	11.0	1975
1976	0.557	0.443	0.832	40.2	21.3	17.6	8.18	0.538	0.848	1.53	0.124	0.088	7.85	1976
1977	0.202	0.251	0.446	1.39	1.89	7.34	4.43	0.787	7.08	10.2	5.55	2.80	3.54	1977
1978	1.05	0.354	0.385	53.1	41.4	11.1	12.2	2.20	0.686	0.639	0.385	10.4	10.4	1978
1979	0.304	0.252	0.275	32.3	58.1	25.5	2.13	0.312	0.258	0.502	0.583	0.368	10.1	1979
1980	0.440	0.334	0.143	8.15	3.53	0.486	0.246	0.480	1.99	4.62	2.87	0.474	1.98	1980
1981	0.328	0.748	1.05	1.92	3.09	16.7	6.55	1.53	20.5	24.6	13.6	3.62	7.85	1981
1982	0.333	0.162	0.498	34.4	33.7	20.7	37.7	14.1	2.86	19.3	8.20	1.45	14.5	1982
1983	0.493	0.382	2.01	20.4	28.5	25.7	13.9	1.74	0.312	0.698	0.838	0.586	7.99	1983
1984	0.178	0.144	1.88	4.70	5.05	39.0	14.3	2.28	0.198	7.41	7.30	0.971	8.93	1984
1985	0.355	0.327	4.07	16.4	27.1	19.1	14.3	5.28	11.6	11.5	5.22	1.26	9.75	1985
1986	0.645	0.341	5.05	56.8	78.8	7.43	4.06	2.17	2.01	3.80	2.51	1.97	13.9	1986
MEAN	0.872	0.642	1.45	31.9	40.6	26.9	14.2	8.46	7.52	10.5	7.87	2.16	12.5	MEAN

LOCATION - LAT 49 56 20 N DRAINAGE AREA 3 730 km²
LONG 95 57 20 W NATURAL FLOW

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO 05PH003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	54.8 ON JUN 17	---	---	1943
1944	---	79.8 ON JUN 19	---	---	1944
1945	---	88.2 ON MAR 28	---	---	1945
1946	---	---	---	---	1946
1947	---	73.1 ON JUN 14	---	---	1947
1948	---	132 ON APR 28	---	---	1948
1949	---	47.0 ON OCT 23	0.8 ON MAR 1 *	---	1949
1950	---	212 ON MAY 13	---	---	1950
1951	---	55.8 ON MAY 4	---	---	1951
1952	---	8.89 ON JUL 5	---	---	1952
1953	---	35.7 ON JUN 7	---	---	1953
1954	---	92.8 ON MAY 2	---	---	1954
1955	---	85.7 ON APR 23	---	---	1955
1956	---	64.0 ON MAY 14	---	---	1956
1957	---	89.5 ON APR 26	0.4818 ON DEC 31	430 000	1957
1958	---	34.5 ON JUL 25	0.3968 ON JAN 7	150 000	1958
1959	---	121 ON JUN 12	0.1428 ON JAN 22	697 000	1959
1960	---	172 ON APR 17	0.5418 ON DEC 26	397 000	1960
1961	---	22.4 ON MAY 14	0.0238 ON JAN 25	107 000	1961
1962	---	166 ON MAY 26	0.1278 ON FEB 27	686 000	1962
1963	---	81.8 B ON APR 9	0.2728 ON DEC 30	483 000	1963
1964	---	77.0 ON MAY 9	0.1278 ON FEB 20	420 000	1964
1965	---	100 B ON APR 15	0.3408 ON FEB 25	697 000	1965
1966	---	140 ON APR 18	1.72 B ON DEC 27	791 000	1966
1967	---	117 ON APR 25	0.1428 ON NOV 26	427 000	1967
1968	---	68.2 ON JUN 13	0.0988 ON FEB 20	403 000	1968
1969	---	97.4 B ON APR 12	0.8518 ON JAN 3	400 000	1969
1970	---	137 A ON MAY 3	0.4838 ON MAR 14	659 000	1970
1971	---	53.5 ON APR 21	0.255 ON APR 5	310 000	1971
1972	58.78 AT 13 10 CST ON APR 18	50.1 ON APR 29	0.1598 ON MAR 15	202 000	1972
1973	---	101 ON JUN 20	0.1228 ON FEB 27	460 000	1973
1974	238 AT 01 02 CST ON APR 27 *	237 ON APR 24 *	0.4838 ON MAR 30	791 000	1974
1975	84.0 AT 11 15 CST ON JUL 3	83.7 ON JUL 3	0.6038 ON DEC 29	346 000	1975
1976	54.9 AT 20 33 CST ON APR 20	54.7 ON APR 20	0.0688 ON DEC 5	242 000	1976
1977	---	22.8 ON JUN 20	0.1448 ON JAN 1	112 000	1977
1978	---	105 ON APR 21	0.3038 ON FEB 17	328 000	1978
1979	---	89.0 B ON APR 21	0.149 ON AUG 24	315 000	1979
1980	---	12.9 B ON APR 8	0.107 ON AUG 3	62 700	1980
1981	53.5 AT 12 00 CST ON SEP 10	52.9 ON SEP 10	0.0098 ON FEB 12	268 000	1981
1982	117 B AT 21 09 CST ON APR 18	92.1 B ON APR 18	0.0098 ON FEB 4	459 000	1982
1983	46.6 AT 02 38 CST ON MAY 15	46.0 ON MAY 15	0.0388 ON MAR 27	252 000	1983
1984	83.1 AT 06 47 CST ON JUN 14	82.5 ON JUN 14	0.0388 ON FEB 12	219 000	1984
1985	48.1 AT 17 42 CST ON JUN 30	45.7 ON JUL 1	0.0308 ON MAR 16	307 000	1985
1986	132 AT 16 20 CST ON MAY 5	131 ON MAY 5	0.0858 ON MAR 10	437 000	1986
				395 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER ABOVE NEEPAWA RESERVOIR - STATION NO 05LL013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.300	0.880	0.623	0.369	0.118	0.070	0.170	0.280	---	---	0.342	1961
1962	---	---	0	1.42	1.02	0.521	0.318	0.285	0.184	0.219	---	---	0.493	1962
1963	---	---	0.083	0.382	0.318	0.659	0.506	0.286	0.218	0.234	---	---	0.332	1963
1964	---	---	0.023	0.800	0.580	0.438	0.305	0.153	0.234	0.224	---	---	0.340	1964
1965	---	---	0.241	2.26	0.644	0.450	0.297	0.258	0.471	0.323	---	---	0.613	1965
1966	---	---	0.373	1.38	0.718	0.397	0.244	0.159	0.128	0.216	---	---	0.449	1966
1967	---	---	0.189	1.31	0.808	0.350	0.253	0.156	0.073	0.270	---	---	0.421	1967
1968	---	---	0.249	0.595	0.475	0.244	0.240	0.376	0.368	0.289	---	---	0.369	1968
1969	---	---	0.215	3.30	1.08	0.572	0.896	0.704	0.484	0.559	---	---	0.868	1969
1970	---	---	0.210	3.04	4.30	1.13	0.846	0.631	0.539	0.472	---	---	1.38	1970
1971	---	---	0.276	1.18	0.919	1.75	2.26	0.650	0.225	0.589	---	---	0.978	1971
1972	---	---	0.306	2.73	1.27	0.644	0.266	0.143	0.202	0.454	---	---	0.746	1972
1973	---	---	0.404	0.432	0.384	0.351	0.246	0.325	0.338	0.402	---	---	0.360	1973
1974	---	---	0.238	3.92	2.32	0.845	0.206	0.261	0.374	0.402	---	---	1.07	1974
1975	---	---	0.382	1.34	1.47	0.703	0.427	0.681	0.712	0.505	---	---	0.775	1975
1976	---	---	0.352	4.10	0.765	0.525	0.236	0.130	0.120	0.329	---	---	0.822	1976
1977	---	---	0.445	0.497	0.895	0.553	0.805	0.305	0.548	0.358	---	---	0.526	1977
1978	---	---	0.293	1.52	0.675	0.384	0.188	0.126	0.251	0.263	---	---	0.452	1978
1979	---	---	0.353	3.87	2.73	0.382	0.101	0.018	0.085	0.353	---	---	0.868	1979
1980	---	---	0.240	0.830	0.380	0.189	0.121	0.385	0.227	0.300	---	---	0.328	1980
1981	---	---	0.480	0.394	0.330	0.289	0.130	0.272	0.196	0.367	---	---	0.304	1981
1982	---	---	0.155	1.20	0.375	0.282	0.360	0.100	0.374	0.438	---	---	0.408	1982
1983	---	---	0.350	2.12	0.557	0.486	0.298	0.102	0.254	0.331	---	---	0.555	1983
1984	---	---	0.243	0.415	0.380	0.275	0.122	0.116	0.322	0.583	---	---	0.306	1984
1985	---	---	0.251	0.845	0.382	0.481	0.058	0.107	0.706	0.357	---	---	0.384	1985
1986	---	---	0.915	1.87	0.777	0.250	0.305	0.202	0.274	0.283	---	---	0.822	1986
MEAN	---	---	0.281	1.84	0.958	0.519	0.390	0.268	0.310	0.362	---	---	0.589	MEAN

LOCATION - LAT 50 10 54 N LONG 99 23 55 W DRAINAGE AREA, 415 km^2 NATURAL FLOW

WHITEMUD RIVER ABOVE NEEPAWA RESERVOIR - STATION NO. 05LL013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	1.30 ON APR 13	0.051 ON AUG 19	7 250	1961
1962	---	4.73 ON APR 23	0 B ON MAR 1 *	10 400	1962
1963	---	1.10 ON JUN 5	0.0038 ON MAR 1	7 020	1963
1964	---	1.83 ON APR 15	0.0208 ON MAR 1	7 200	1964
1965	---	9.85 ON APR 16	0.207 ON JUL 10	13 000	1965
1966	---	3.37 ON APR 6	0.045 ON AUG 28	8 510	1966
1967	---	6.20 ON APR 22	0.057 ON SEP 17	8 910	1967
1968	---	1.05 ON APR 21	0.096 ON AUG 14	7 610	1968
1969	---	12.7 ON APR 16	0.1008 ON MAR 28	20 500	1969
1970	---	20.1 ON APR 29 *	0.2108 ON MAR 1	29 500	1970
1971	---	2.92 ON JUN 23	0.083 ON SEP 4	20 700	1971
1972	---	7.11 B ON APR 15	0.122 ON AUG 5	15 800	1972
1973	---	0.6888 ON MAR 21	0.170 ON JUL 11	7 630	1973
1974	21.3 AT 12:53 CST ON APR 21 *	20.1 ON APR 21	0.167 ON JUL 22	22 800	1974
1975	3.45 B AT 09:05 CST ON APR 23	3.35 B ON APR 23	0.334 ON JUL 15	16 400	1975
1976	17.5 B AT 20:34 CST ON APR 9	16.3 B ON APR 9	0.054 ON AUG 27	17 400	1976
1977	2.47 AT 21:34 CST ON JUL 11	2.30 ON JUL 14	0.068 ON AUG 28	11 100	1977
1978	5.04 B AT 13:15 CST ON APR 15	3.31 ON APR 16	0.031 ON SEP 10	9 580	1978
1979	20.4 B AT 17:12 CST ON APR 25	18.9 B ON APR 25	0 ON AUG 7	20 300	1979
1980	---	2.27 B ON APR 7	0.003 ON AUG 1	6 940	1980
1981	0.808 AT 07:23 CST ON MAY 8	0.7008 ON MAR 29	0.063 ON JUL 14	6 430	1981
1982	3.83 AT 13:30 CST ON APR 17	3.64 B ON APR 18	0.024 ON AUG 13	6 640	1982
1983	7.14 AT 03:37 CST ON APR 25	7.03 ON APR 25	0.059 ON AUG 10	11 800	1983
1984	0.879 AT 23:21 CST ON MAY 4	0.818 ON OCT 22	0.052 ON JUL 31	6 530	1984
1985	---	5.82 A ON SEP 20	0.0298 ON MAR 20	8 340	1985
1986	10.4 AT 12:38 CST ON APR 4	8.36 B ON APR 4	0.171 ON JUN 10	13 200	1986
				12 500	MEAN

A - MANUAL GAUGE
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	4.77	29.9	19.6	11.3	2.76	1.70	1.09	3.43	---	---	---	1972
1973	---	---	4.00	4.66	5.81	4.12	1.72	2.14	3.44	4.39	1.85	1.27	---	1973
1974	0.883	0.301	0.437	57.7	52.7	23.3	5.21	1.21	1.08	1.99	2.45	1.17	12.5	1974
1975	0.801	0.574	0.742	18.2	22.3	6.63	1.38	4.81	14.4	14.0	12.0	4.85	8.63	1975
1976	3.35	2.39	1.74	112	43.2	9.90	2.46	0.786	0.606	3.24	1.20	0.214	15.0	1976
1977	0.187	0.257	1.33	4.80	5.75	3.94	3.63	1.40	3.55	2.60	1.75	0.828	2.88	1977
1978	0.793	0.623	1.13	24.6	8.77	5.49	1.56	0.869	0.824	2.67	4.26	1.60	4.41	1978
1979	0.753	0.481	0.630	56.5	93.4	31.8	9.38	2.53	1.35	1.64	1.89	1.39	16.8	1979
1980	0.785	0.884	0.806	9.75	3.16	1.13	0.632	4.12	1.81	3.55	2.84	1.49	2.57	1980
1981	0.511	1.34	3.15	5.30	3.74	5.85	0.821	0.750	0.662	2.45	2.39	0.946	2.33	1981
1982	0.185	0.181	0.526	15.0	10.2	4.29	4.37	1.44	0.884	3.13	2.09	0.720	3.57	1982
1983	0.851	0.516	0.497	50.4	16.7	7.90	3.01	0.915	0.438	1.99	3.47	1.14	7.27	1983
1984	0.281	0.409	2.41	6.59	6.57	3.23	1.03	0.433	0.267	3.63	1.07	0.718	2.22	1984
1985	0.406	0.297	9.42	14.8	4.78	2.27	1.12	2.35	1.75	3.17	2.28	1.35	3.89	1985
1986	0.877	0.925	8.42	29.5	35.7	15.1	9.13	2.89	1.25	3.28	1.88	1.22	9.21	1986
MEAN	0.803	0.706	2.87	29.3	22.2	9.06	3.36	1.90	2.22	3.87	2.97	1.35	6.87	MEAN

LOCATION - LAT 50 08 03 N
LONG 98 35 00 W
DRAINAGE AREA, 6 340 km^2
REGULATED SINCE 1980

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	15.5 AT 00:43 CST ON SEP 8	14.6 ON SEP 8	---	---	1973
1974	---	244 A ON APR 20	0.2218 ON FEB 16	385 000	1974
1975	62.1 AT 05:39 CST ON MAY 3	62.0 ON MAY 3	0.5188 ON FEB 1	286 000	1975
1976	179 AT 22:27 CST ON APR 20	177 ON APR 21	0.1058 ON DEC 8	475 000	1976
1977	13.3 AT 23:30 CST ON MAY 22	13.2 ON MAY 23	0.1518 ON JAN 27	78 100	1977
1978	---	40.58 ON APR 16	0.4368 ON JAN 31	178 000	1978
1979	314 AT 07:30 CST ON APR 25 *	305 ON APR 25 *	0.3768 ON FEB 27	531 000	1979
1980	21.3 AT 10:43 CST ON AUG 21	17.88 ON APR 11	0.236 ON AUG 2	81 400	1980
1981	13.08 AT 06:15 CST ON APR 4	12.38 ON APR 6	0.208 ON SEP 21	73 500	1981
1982	---	53.88 ON APR 19	0.0648 ON JAN 25	113 000	1982
1983	105 B AT 07:19 CST ON APR 11	98.48 ON APR 11	0.1508 ON MAR 26	230 000	1983
1984	13.9 AT 23:40 CST ON MAY 6	13.6 ON MAY 6	0.057 ON SEP 7 *	70 300	1984
1985	59.38 AT 23:17 CST ON MAR 25	54.58 ON MAR 26	0.1868 ON MAR 16	116 000	1985
1986	78.5 AT 22:49 CST ON MAY 7	77.1 ON MAY 7	0.892 ON NOV 6	280 000	1986
				220 000	MEAN

A - MANUAL GAUGE
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1943	---	---	1.88	9.79	1.81	3.79	2.76	0.870	0.117	0.239	---	---	2.74	1943
1944	---	---	---	1.03	1.37	3.02	2.38	0.273	0.362	0.402	0.484	---	1.25	1944
1945	---	---	---	2.81	2.02	0.980	0.722	0.116	0.102	0.271	---	---	1.00	1945
1946	---	---	---	5.78	1.13	0.462	0.402	0.059	0.059	0.406	---	---	1.17	1946
1947	---	---	---	8.97	2.42	1.81	2.24	0.362	0.106	0.158	---	---	3.28	1947
1948	---	---	---	9.72	3.89	0.498	0.283	0.428	0.087	0.174	---	---	2.15	1948
1949	---	---	---	7.82	1.36	0.754	0.346	0.464	0.038	0.287	0.606	---	1.56	1949
1950	---	---	---	3.12	8.54	3.70	2.98	0.794	0.384	0.405	---	---	2.57	1950
1951	---	---	---	5.20	2.47	1.52	0.290	0.260	0.292	0.666	---	---	1.52	1951
1952	---	---	---	3.59	0.640	1.55	2.33	0.348	1.26	0.333	0.343	---	1.44	1952
1953	---	---	---	10.3	4.51	5.41	1.87	0.386	0.264	0.388	0.243	---	3.42	1953
1954	---	---	0.057	7.45	2.89	5.48	1.98	0.262	1.05	1.87	0.801	---	3.10	1954
1955	---	---	0.225	13.9	4.65	3.38	2.26	0.297	0.292	0.579	---	---	3.60	1955
1956	---	---	0.085	12.9	15.0	8.00	7.77	0.833	0.435	1.37	---	---	6.76	1956
1957	---	---	2.30	8.18	3.25	2.08	1.46	0.814	0.441	0.637	---	---	2.09	1957
MEAN	---	---	1.11	7.24	3.86	2.96	2.00	0.431	0.353	0.552	0.495	---	2.44	MEAN

LOCATION - LAT 50 13 05 N DRAINAGE AREA, 1 850 km²
LONG 98 55 26 W NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945 AND 1957

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1943	---	19.5 ON APR 10	0.086 ON SEP 29	50 700	1943
1944	---	8.99 ON JUL 1	0.0850 ON APR 1	23 000	1944
1945	---	13.7 ON APR 1	0.023 ON SEP 8	18 500	1945
1946	---	17.2 ON APR 1	0 ON SEP 17 *	21 700	1946
1947	---	25.0 B ON APR 15	0.040 ON AUG 13	42 100	1947
1948	---	32.3 B ON APR 21 *	0.008 ON SEP 24	39 800	1948
1949	---	18.3 B ON APR 10	0.003 ON SEP 11	28 900	1949
1950	---	13.8 ON MAY 13	0.286 ON OCT 5	47 400	1950
1951	---	12.6 B ON APR 8	0.142 ON AUG 11	28 000	1951
1952	---	10.9 ON JUL 2	0.198 ON AUG 19	26 700	1952
1953	---	29.4 B ON APR 7	0.198 ON SEP 8	63 200	1953
1954	---	24.7 B ON APR 15	0.0578 ON APR 1	57 300	1954
1955	---	24.4 B ON APR 8	0.085 ON AUG 20	86 400	1955
1956	---	31.7 ON APR 26	0.085 ON AUG 23	125 000	1956
1957	---	16.2 ON APR 26	0.142 ON OCT 1	38 600	1957
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		45 200	MEAN

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	3.58	1.21	0.527	0.367	0.052	0.103	0.826	---	---	---	1958
1959	---	---	0.509	3.03	1.47	0.660	0.253	0.021	0.269	0.658	---	---	---	1959
1960	---	---	0.170	37.9	9.01	1.76	0.418	0.134	0.140	0.518	---	---	---	1960
1961	---	---	0.529	1.46	1.57	0.834	0.040	0.067	0.348	0.578	---	---	---	1961
1962	---	---	0.114	11.2	2.49	1.53	0.511	0.614	0.417	0.498	0.542	0.182	---	1962
1963	0.003	0	3.42	5.58	1.43	2.40	2.24	0.163	0.120	0.380	0.427	---	---	1963
1964	---	---	0.265	3.41	3.04	0.857	0.318	0.188	0.247	0.178	0.143	0.097	---	1964
1965	0.108	0.153	0.189	21.2	3.75	2.06	2.15	1.22	2.80	0.877	0.686	0.548	2.95	1965
1966	0.302	0.183	4.39	9.13	4.02	1.43	0.270	0.254	0.361	0.099	0.480	0.355	1.78	1966
1967	0.258	0.209	0.240	16.8	3.50	0.682	0.223	0.117	0.094	0.197	0.205	0.146	1.88	1967
1968	0.098	0.208	1.80	2.24	1.12	0.497	0.319	0.740	0.648	0.496	0.533	0.158	0.743	1968
1969	0.158	0.242	0.329	28.1	3.90	1.81	8.46	2.26	0.567	1.08	1.00	0.383	3.87	1969
1970	0.194	0.294	0.319	34.0	24.8	3.53	1.55	0.387	0.467	0.738	0.887	0.337	5.63	1970
1971	0.311	0.280	0.321	6.89	2.77	10.4	9.22	1.23	0.437	2.18	1.41	0.521	3.00	1971
1972	0.253	0.209	3.35	16.5	4.82	1.29	0.542	0.270	0.157	0.386	0.454	0.116	2.35	1972
1973	0.156	0.197	1.45	1.41	1.60	1.07	0.389	0.682	2.43	1.34	0.708	0.441	0.991	1973
1974	0.253	0.280	0.421	32.9	16.5	3.00	0.380	0.148	0.170	0.433	0.485	0.285	4.82	1974
1975	0.305	0.304	0.348	11.3	5.47	1.89	0.361	2.91	6.23	2.09	1.24	0.610	3.10	1975
1976	0.680	0.614	0.549	31.4	2.67	1.75	0.377	0.045	0.024	0.248	0.251	0.130	3.16	1976
1977	0.144	0.157	0.551	1.37	1.98	1.40	2.70	0.703	2.17	1.34	0.786	0.387	1.15	1977
1978	0.383	0.220	0.275	10.5	3.31	1.24	0.286	0.170	0.246	0.356	0.349	0.286	1.46	1978
1979	0.231	0.172	0.300	34.0	24.5	3.87	1.09	0.154	0.133	0.366	0.333	0.206	5.46	1979
1980	0.173	0.196	0.241	4.61	0.576	0.245	0.170	0.894	0.627	0.793	0.821	0.297	0.807	1980
1981	0.144	1.28	1.04	1.55	0.988	0.859	0.283	0.307	0.167	0.847	0.829	0.259	0.682	1981
1982	0.081	0.089	0.189	5.80	2.16	0.901	1.78	0.349	0.225	0.601	0.455	0.184	1.07	1982
1983	0.196	0.103	0.181	25.9	3.92	1.18	0.748	0.202	0.282	0.400	0.293	0.148	3.77	1983
1984	0.100	0.203	0.556	1.82	2.21	0.727	0.191	0.136	0.219	0.575	0.299	0.159	0.606	1984
1985	0.091	0.081	0.779	5.84	0.880	0.524	0.312	0.677	0.513	0.742	0.438	0.274	0.944	1985
1986	0.273	0.258	4.67	9.48	8.77	0.825	1.21	0.208	0.182	0.367	0.287	0.355	2.23	1986
MEAN	0.212	0.257	0.982	13.1	4.99	1.70	1.26	0.538	0.713	0.699	0.570	0.284	2.34	MEAN

LOCATION - LAT 50 11 15 N DRAINAGE AREA 1 750 km²
LONG 99 06 10 W REGULATED SINCE 1960

WHITEMUD RIVER NEAR KEYES - STATION NO 05LL005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	12.3 B ON MAR 29	---	---	1958
1959	---	5.388 ON APR 9	0 B ON MAR 1 *	---	1959
1960	---	130 ON APR 16	---	---	1960
1961	---	2.38 ON APR 24	0 ON JUL 8	---	1961
1962	---	37.1 ON APR 20	0 B ON DEC 26	---	1962
1963	---	21.8 B ON MAR 25	0 B ON JAN 1	---	1963
1964	---	12.7 B ON APR 10	---	---	1964
1965	---	95.1 ON APR 14	0.1028 ON JAN 1	93 100	1965
1966	---	38.5 B ON APR 2	0.025 ON OCT 10	58 100	1966
1967	---	87.4 B ON APR 16	0.025 ON AUG 30	59 400	1967
1968	---	13.6 B ON MAR 30	0.0688 ON JAN 8	23 500	1968
1969	123 AT 08 05 CST ON APR 14	114 ON APR 13	0.1428 ON JAN 1	125 000	1969
1970	243 AT 20 36 CST ON APR 26 *	207 ON APR 27 *	0 B ON JAN 8	177 000	1970
1971	28.9 AT 20 28 CST ON JUL 13	24.8 ON JUL 13	0.2558 ON MAR 2	84 700	1971
1972	---	33.4 ON APR 18	0.057 ON DEC 16	74 300	1972
1973	---	15.3 ON SEP 6	0.116 ON JUL 23	31 300	1973
1974	187 AT 10 31 CST ON APR 18	140 ON APR 18	0.093 ON SEP 21	146 000	1974
1975	86.3 AT 23 26 CST ON APR 30	58.6 ON MAY 1	0.181 ON JUL 14	97 900	1975
1976	---	88.5 ON APR 11	0.015 ON SEP 9	101 000	1976
1977	13.3 AT 10 00 CST ON JUL 13	11.8 ON JUL 13	0.1258 ON JAN 20	35 100	1977
1978	---	25.0 B ON APR 10	0.088 ON SEP 11	46 000	1978
1979	199 AT 02 33 CST ON APR 23	181 ON APR 23	0.052 ON SEP 25	172 000	1979
1980	16.8 AT 20 08 CST ON APR 9	12.8 ON APR 9	0.057 ON AUG 2	25 500	1980
1981	---	8.078 ON FEB 21	0.012 ON AUG 30	21 500	1981
1982	26.3 B AT 13 52 CST ON APR 16	15.8 B ON APR 15	0.0758 ON JAN 18	33 600	1982
1983	123 AT 11 34 CST ON APR 22	106 ON APR 22	0.0808 ON FEB 8	87 400	1983
1984	8.18 AT 10 13 CST ON MAY 7	7.51 ON MAY 7	0.0558 ON DEC 27	19 200	1984
1985	18.9 B AT 09 02 CST ON APR 8	15.6 B ON APR 8	0.0808 ON FEB 11	29 700	1985
1986	46.7 AT 22 16 CST ON MAR 31	39.5 ON APR 1	0.092 ON AUG 28	70 400	1986
				73 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR NEEPAWA - STATION NO 05LL011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	---	---	---	---	1960
1961	---	---	0.274	0.535	0.880	0.827	0.223	0.040	0.109	0.225	---	---	---	1961
1962	---	---	0.170	3.09	0.987	0.485	0.240	0.204	0.218	0.147	---	---	0.388	1962
1963	---	---	0.618	1.41	0.550	1.15	0.777	0.208	0.202	0.153	---	---	0.715	1963
1964	---	---	0.273	0.789	0.855	0.297	0.243	0.186	0.186	0.155	---	---	0.373	1964
1965	---	---	0.241	5.98	1.08	0.589	1.03	0.464	1.08	0.435	---	---	1.34	1965
1966	---	---	1.10	2.33	1.39	0.583	0.207	0.227	0.206	0.196	---	---	0.777	1966
1967	---	---	0.330	3.03	1.14	0.239	0.185	0.198	0.238	0.173	---	---	0.673	1967
1968	---	---	0.306	0.884	0.395	0.221	0.238	0.324	0.407	0.246	---	---	0.373	1968
1969	---	---	0.210	5.39	1.49	0.785	2.81	0.485	0.403	0.521	---	---	1.83	1969
1970	---	---	0.333	8.95	7.94	1.37	0.635	0.290	0.488	0.385	---	---	2.59	1970
1971	---	---	0.263	1.85	1.09	3.87	3.86	1.02	0.803	1.04	---	---	1.87	1971
1972	---	---	0.985	6.40	1.83	1.07	0.232	0.134	0.065	0.212	---	---	1.37	1972
1973	---	---	0.486	0.522	0.714	0.419	0.159	0.287	0.813	0.415	---	---	0.476	1973
1974	---	---	0.204	10.2	4.59	1.26	0.149	0.113	0.228	0.363	---	---	2.12	1974
1975	---	---	0.294	3.37	2.92	0.884	0.207	0.989	1.22	0.671	---	---	1.31	1975
1976	---	---	0.398	9.10	1.02	0.749	0.203	0.082	0.117	0.152	---	---	1.45	1976
1977	---	---	0.478	0.675	1.07	0.613	1.23	0.306	1.09	0.584	---	---	0.765	1977
1978	---	---	0.434	3.05	1.56	0.428	0.139	0.153	0.282	0.200	---	---	0.777	1978
1979	---	---	0.234	10.1	5.38	0.735	0.525	0.126	0.231	0.198	---	---	2.19	1979
1980	---	---	0.203	0.936	0.261	0.191	0.161	0.228	0.325	0.385	---	---	0.335	1980
1981	---	---	0.395	0.337	0.369	0.327	0.185	0.190	0.073	0.280	---	---	0.295	1981
1982	---	---	0.254	1.67	0.620	0.358	0.791	0.307	0.248	0.285	---	---	0.584	1982
1983	---	---	0.285	5.88	1.13	0.406	0.415	0.201	0.202	0.283	---	---	1.21	1983
1984	---	---	0.195	0.482	0.522	0.376	0.222	0.210	0.173	0.212	---	---	0.311	1984
1985	---	---	0.481	2.37	0.253	0.219	0.385	0.539	0.385	0.439	---	---	0.625	1985
1986	---	---	1.84	3.02	1.75	0.231	0.409	0.181	0.190	0.218	---	---	0.978	1986
MEAN	---	---	0.462	3.63	1.61	0.703	0.617	0.298	0.370	0.331	---	---	0.897	MEAN

LOCATION - LAT 50 13 36 N DRAINAGE AREA 805 km^2
LONG 99 27 17 W REGULATED SINCE 1960

WHITEMUD RIVER NEAR NEEPAWA - STATION NO. 05LL011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	1.83 ON MAY 31	0.003 ON OCT 26	8 220	1961
1962	---	9.34 ON APR 22	0 ON SEP 9 *	15 100	1962
1963	---	4.08 ON JUN 27	0.119 ON OCT 19	13 400	1963
1964	---	2.00 ON MAY 6	0.105 ON JUN 3	7 880	1964
1965	---	19.7 ON APR 16	0 ON AUG 14	28 400	1965
1966	---	5.01 ON MAR 22	0.108 ON SEP 26	15 400	1966
1967	---	9.15 ON APR 18	0.125 ON JUN 5	14 300	1967
1968	---	1.23 ON APR 11	0.113 ON JUL 9	7 900	1968
1969	---	22.2 ON APR 16	0.201 ON JUN 20	34 500	1969
1970	---	46.7 ON APR 29 *	0.082 ON AUG 19	54 800	1970
1971	---	11.4 ON JUN 16	0.215 ON SEP 26	35 400	1971
1972	---	13.9 ON APR 16	0 ON JUL 12	28 900	1972
1973	---	3.85 ON SEP 4	0 ON JUL 14	10 100	1973
1974	---	41.1 ON APR 21	0.022 ON AUG 17	44 900	1974
1975	---	17.2 ON APR 29	0.007 ON JUL 9	27 800	1975
1976	---	29.4 ON APR 10	0.042 ON AUG 8	30 800	1976
1977	---	4.53 ON JUL 13	0.059 ON AUG 23	15 000	1977
1978	---	5.07 E ON APR 16	0.059 ON JUN 29	15 400	1978
1979	---	36.8 B ON APR 25	0.068 ON OCT 9	45 300	1979
1980	---	1.48 B ON APR 9	0.110 ON AUG 14	7 080	1980
1981	0.991 AT 19:38 CST ON MAR 17	0.896 ON MAR 31	0 ON AUG 26	6 250	1981
1982	4.54 B AT 13:57 CST ON APR 16	4.47 B ON APR 18	0.1848 ON APR 4	11 900	1982
1983	26.4 AT 05:23 CST ON APR 21 *	22.1 ON APR 22	0.1828 ON MAR 1	25 500	1983
1984	1.80 AT 10:47 CST ON MAY 6	1.49 ON MAY 6	0.145 ON JUL 26	5 590	1984
1985	5.57 AT 22:55 CST ON APR 5	5.33 B ON APR 5	0.0418 ON MAR 17	13 200	1985
1986	16.4 AT 17:47 CST ON MAR 30	14.7 ON MAR 30	0.158 ON JUN 24	20 700	1986
				21 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	13.1	3.62	1.61	1.63	0.185	0.209	1.12	---	---	---	1958
1959	---	---	0.573	7.39	4.86	1.96	0.935	0.430	1.06	2.95	---	---	2.51	1959
1960	---	---	0.536	71.9	31.9	9.27	2.44	1.18	0.731	0.853	---	---	14.7	1960
1961	---	---	1.20	5.22	5.33	1.98	0.416	0.069	0.349	0.844	---	---	1.89	1961
1962	---	---	0.180	17.1	7.15	3.37	0.852	1.96	3.31	2.20	---	---	4.45	1962
1963	---	---	7.32	12.9	6.48	12.5	8.04	2.53	1.15	1.43	---	---	5.53	1963
1964	---	---	0.138	10.9	7.94	3.31	1.88	0.930	1.48	1.34	---	---	3.51	1964
1965	---	---	0.238	27.0	10.3	7.51	4.39	2.11	4.54	3.48	---	---	7.37	1965
1966	---	---	2.97	34.7	14.7	5.49	2.05	1.08	0.777	0.991	---	---	6.67	1966
1967	---	---	0.798	26.3	14.4	5.98	1.53	0.271	0.087	0.516	---	---	5.19	1967
1968	---	---	2.21	7.63	5.72	2.95	1.22	2.53	3.31	2.42	---	---	3.47	1968
1969	---	---	0.377	51.7	22.8	9.56	17.3	6.19	2.78	3.78	---	---	14.2	1969
1970	---	---	0.691	56.6	116	24.2	8.97	3.59	3.67	3.50	---	---	27.2	1970
1971	---	---	0.629	18.9	10.6	18.6	17.2	4.22	2.33	6.31	---	---	9.81	1971
MEAN	---	---	1.37	25.1	18.7	7.81	4.98	1.95	1.87	2.25	---	---	8.35	MEAN

LOCATION - LAT 50 09 16 N
LONG 98 41 51 W
DRAINAGE AREA 6 230 km^2
REGULATED SINCE 1980

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	39.1 B ON APR 1	---	---	1958
1959	---	14.9 ON APR 7	0.0148 ON MAR 1	53 100	1959
1960	---	200 ON APR 17	0.481 ON SEP 27	311 000	1960
1961	---	8.50 ON MAY 6	0.023 ON AUG 19	40 100	1961
1962	---	65.1 ON APR 22	0.026 ON JUL 3	94 200	1962
1963	---	51.3 B ON MAR 29	0 B ON MAR 1 *	138 000	1963
1964	---	25.6 B ON APR 15	0.1138 ON APR 1	74 500	1964
1965	---	126 B ON APR 17	0.1708 ON MAR 1	156 000	1965
1966	---	58.3 ON APR 6	0.195 ON AUG 4	141 000	1966
1967	---	66.8 B ON APR 20	0.040 ON SEP 15	131 000	1967
1968	---	19.1 B ON APR 1	0.122 ON JUL 10	73 500	1968
1969	---	187 ON APR 15	0.3778 ON MAR 1	301 000	1969
1970	---	326 ON APR 29 *	0.8918 ON MAR 1	576 000	1970
1971	---	51.5 B ON APR 11	0.6298 ON MAR 1	208 000	1971
				177 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO 05PG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	2.31	5.00	10.1	5.85	2.87	1.50	1.02	0.770	---	---	---	1980
1981	---	---	1.37	1.53	2.81	1.71	0.269	0.245	0.082	0.217	---	---	---	1981
1982	---	---	---	---	15.1	21.8	8.28	8.49	8.82	---	---	---	---	1982
1983	---	---	---	5.08	7.56	5.14	7.14	3.97	1.82	---	---	---	---	1983
1984	---	---	---	4.02	11.0	6.30	5.06	5.79	6.00	5.67	4.96	3.58	---	1984
1985	2.59	1.97	2.43	7.55	14.1	12.5	9.61	7.00	6.10	8.97	---	---	---	1985
1986	0.441	0.268	0.486	10.7	19.8	18.0	11.7	4.43	4.39	3.11	1.95	1.80	5.42	1986
1987	1.43	1.39	1.57	9.31	14.0	6.84	1.25	1.02	3.32	1.02	1.12	1.86	3.84	1987
1988	1.21	1.18	1.14	5.16	5.22	6.58	8.15	4.19	3.34	4.13	6.35	4.39	4.26	1988
1989	3.27	2.87	2.62	5.15	8.74	2.77	3.02	2.50	1.92	1.78	3.98	2.68	3.41	1989
1970	0.440	0.898	0.774	3.44	15.8	13.9	3.38	1.50	1.87	2.28	8.53	5.59	4.88	1970
1971	3.38	1.84	1.88	7.80	12.5	5.89	1.59	0.685	0.131	0.093	4.10	2.81	3.58	1971
1972	1.76	1.15	1.32	3.43	3.78	2.67	0.476	0.381	0.550	0.830	5.17	2.03	1.96	1972
1973	1.53	1.24	0.777	0.104	0.084	0.339	1.23	2.47	5.35	10.1	10.5	6.89	3.40	1973
1974	4.03	2.97	2.53	10.5	34.4	28.4	4.27	1.75	6.04	8.59	4.01	2.78	9.04	1974
1975	2.30	2.02	2.08	4.30	11.1	7.18	5.72	1.47	1.82	2.01	0.977	0.979	3.52	1975
1976	1.09	1.03	1.09	5.82	8.52	4.39	1.59	0.213	0.243	0.180	0.096	0.084	2.03	1976
1977	0.081	0.073	0.079	0.069	0.531	6.42	5.75	2.81	3.24	5.52	5.43	5.61	3.07	1977
1978	5.55	3.89	2.90	5.42	19.7	8.72	2.00	0.760	0.781	1.98	1.95	1.57	4.89	1978
1979	1.08	1.02	1.18	3.09	14.4	10.4	1.22	0.347	0.326	1.74	1.87	1.91	3.24	1979
1980	1.51	1.16	0.932	1.28	2.39	1.12	0.332	0.228	1.71	2.59	2.77	2.28	1.53	1980
1981	1.56	1.28	0.275	0.074	0.085	0.454	1.34	0.540	1.77	5.26	5.36	3.75	1.85	1981
1982	2.08	1.39	1.49	3.47	10.3	7.25	2.48	1.49	1.13	3.85	3.08	2.09	3.35	1982
1983	1.86	1.42	1.62	1.27	2.37	5.42	2.10	0.411	0.380	2.37	1.76	1.15	1.83	1983
1984	0.849	0.540	0.489	0.177	0.130	3.92	5.24	1.87	0.385	1.85	4.39	4.13	1.98	1984
1985	4.10	2.80	2.32	0.378	8.59	3.85	3.23	1.77	4.74	5.03	5.76	4.78	3.98	1985
1986	3.58	2.62	2.38	8.38	19.2	5.31	1.13	0.918	0.712	2.74	0.698	0.772	3.88	1986
MEAN	2.08	1.58	1.50	4.34	10.1	7.68	3.72	3.20	2.51	3.22	3.85	2.91	3.80	MEAN

LOCATION - LAT 50 02 20 N
LONG 95 30 20 W

DRAINAGE AREA, 884 km²
REGULATED

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO 05PG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	11.9 ON MAY 4	---	---	1980
1981	---	6.80 ON APR 2	0.028E ON SEP 3	---	1981
1982	---	31.4 ON JUN 4	---	---	1982
1983	---	9.86 ON JUN 12	---	---	1983
1984	---	12.7 ON MAY 15	---	---	1984
1985	---	16.1 ON MAY 17	---	---	1985
1986	---	21.1 ON MAY 7	0.210E ON MAR 23	203 000	1986
1987	---	15.2 E ON MAY 7	0.289 ON JUL 27	115 000	1987
1988	---	13.4 ON JUN 17	1.13 E ON FEB 25	135 000	1988
1989	9.77 AT 07 38 CST ON MAY 5	9.76 ON MAY 5	1.03 ON JUN 4	108 000	1989
1970	19.8 AT 06 35 CST ON JUN 1	19.7 ON JUN 1	0.153 ON JAN 22	164 000	1970
1971	14.6 AT 18 18 CST ON MAY 11	14.7 ON MAY 15	0.074 ON SEP 25	112 000	1971
1972	14.5 AT 19 44 CST ON OCT 31	12.6 ON NOV 1	0.276 ON AUG 11	81 900	1972
1973	12.9 AT 22 39 CST ON OCT 13	12.5 ON OCT 14	0.071 ON MAY 13	107 000	1973
1974	42.5 AT 15 00 CST ON MAY 24 *	42.2 ON MAY 24 *	0.665 ON AUG 9	285 000	1974
1975	12.0 AT 11 55 CST ON MAY 19	11.9 ON MAY 19	0.739 ON AUG 7	111 000	1975
1976	14.7 AT 14 01 CST ON APR 26	13.9 ON APR 27	0.078 ON NOV 23	84 100	1976
1977	15.3 AT 20 11 CST ON JUN 20	14.2 ON JUN 21	0.026 ON APR 29 *	95 700	1977
1978	25.8 AT 15 47 CST ON MAY 3	24.5 ON MAY 4	0.806 ON OCT 12	146 000	1978
1979	21.1 AT 17 47 CST ON MAY 17	20.0 ON MAY 18	0.293 ON SEP 10	102 000	1979
1980	5.57 AT 19 54 CST ON SEP 22	5.20 ON SEP 23	0.169 ON SEP 5	48 300	1980
1981	11.5 AT 15 35 CST ON OCT 13	10.3 ON OCT 14	0.027 ON MAY 2	58 400	1981
1982	13.3 AT 17 52 CST ON MAY 19	13.0 ON MAY 20	0.871 ON AUG 17	106 000	1982
1983	7.89 AT 17 56 CST ON OCT 11	7.53 ON JUN 2	0.258 ON APR 28	57 700	1983
1984	9.77 AT 13 02 CST ON OCT 24	7.71 ON OCT 25	0.040 ON MAY 6	82 900	1984
1985	15.3 AT 17 25 CST ON MAY 14	14.4 ON MAY 15	0.186 ON APR 10	135 000	1985
1986	24.4 AT 23 33 CST ON MAY 9	22.4 ON MAY 10	0.373 ON NOV 3	122 000	1986
				113 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILD GOOSE NEAR DEAD CREEK NORTH OF PINAWA - STATION NO 05PP006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	0	0	0.002	0.010	0.002	0	0	0	0	0	0	0	0.001	1985
MEAN	0	0	0.002	0.010	0.002	0	0	0	0	0	0	0	0.001	MEAN

LOCATION - LAT 50 15 00 N
LONG 95 52 54 W

DRAINAGE AREA, 43 km²
NATURAL FLOW

DATA CONTRIBUTED BY -
ATOMIC ENERGY OF CANADA

WILD GOOSE NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PP005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	0.058	ON MAR 31 *	0.050 ON MAR 31 *	0 ON JAN 1 *	38.4	1986
			* - EXTREME RECORDED FOR THE PERIOD OF RECORD		38.4	MEAN

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.883	1.81	0.924	0.094	0.048	0	0	0	---	---	0.488	1966
1967	---	---	0	3.08	0.433	0.021	0.004	0	0	0	---	---	0.435	1967
1968	---	---	0.703	0.136	0.023	0.007	0.008	0.021	0.171	0.045	---	---	0.140	1968
1969	---	---	0	12.1	1.06	0.213	2.02	0.179	0.014	0.018	---	---	1.92	1969
1970	---	---	0.008	13.6	3.29	0.482	0.107	0.026	0.015	0.028	---	---	2.16	1970
1971	---	---	0	1.71	0.726	2.98	3.19	0.180	---	---	---	---	---	1971
1972	---	---	1.27	5.27	0.686	0.290	0.178	0.031	0.001	0.001	---	---	0.955	1972
1973	---	---	0.042	0.023	0.036	0.029	0.082	0.039	0.049	0.111	---	---	0.053	1973
1974	---	---	0	13.1	3.12	0.486	0.007	0	0	0	---	---	2.06	1974
1975	---	---	0	4.76	1.35	0.580	0.024	0.105	0.221	0.118	---	---	0.879	1975
1976	---	---	0.010	14.1	0.424	0.249	0.057	0	0	0	---	---	1.82	1976
1977	---	---	0.004	0.004	0.019	0.008	0.041	0.001	0.021	0.073	---	---	0.021	1977
1978	---	---	0.320	2.89	0.554	0.233	0.007	0	0	0	---	---	0.484	1978
1979	---	---	0	8.08	2.17	0.421	0.006	0	0	0	---	---	1.32	1979
1980	---	---	0	0.054	0.001	0	0	0.400	0.043	0.011	---	---	0.064	1980
1981	---	---	0.284	0.027	0.015	0.009	0.001	0	0	0	---	---	0.040	1981
1982	---	---	0.148	2.85	0.105	0.077	0.280	0.057	0.001	0.070	---	---	0.443	1982
1983	---	---	0.006	5.04	0.322	0.181	0.137	0.011	0	0	---	---	1.06	1983
1984	---	---	0.053	0.018	0.105	0.218	0.006	0	0	0	---	---	0.050	1984
1985	---	---	2.00	1.77	0.015	0.001	0	0.247	0.165	0.060	---	---	0.531	1985
1986	---	---	2.91	2.15	2.09	0.080	0.090	0.013	0	0	---	---	0.919	1986
MEAN	---	---	0.411	4.55	0.832	0.314	0.301	0.059	0.035	0.027	---	---	0.792	MEAN

LOCATION - LAT 49 51 32 N DRAINAGE AREA, 589 km^2
LONG 95 49 34 W NATURAL FLOW

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	8.20 E ON APR 1	0 B ON MAR 1 *	9 910	1966
1967	---	11.9 B ON APR 15	0 B ON MAR 1	9 220	1967
1968	---	3.82 B ON MAR 27	0 B ON MAR 1	2 950	1968
1969	---	77.9 ON APR 13	0 B ON MAR 1	40 700	1969
1970	---	58.3 ON APR 25	0 0.008 E ON AUG 28	45 700	1970
1971	---	27.9 ON JUL 12	0 B ON MAR 1	---	1971
1972	---	25.7 B ON APR 10	0 B ON MAR 1	20 200	1972
1973	---	0.294 ON SEP 5	0 B ON MAR 1	1 110	1973
1974	---	80.4 ON APR 18 *	0 B ON MAR 1	43 600	1974
1975	---	32.0 ON APR 28	0 B ON MAR 1	18 800	1975
1976	---	56.9 B ON APR 7	0 ON AUG 3	38 500	1976
1977	---	0.343 ON JUL 14	0 B ON MAR 1	454	1977
1978	---	15.0 B ON APR 8	0 B ON MAR 1	10 400	1978
1979	---	71.4 B ON APR 21	0 B ON MAR 1	27 900	1979
1980	4.04 AT 04 41 CST ON AUG 22	3.85 ON AUG 22	0 B ON MAR 1	1 350	1980
1981	---	0 B'88 ON MAR 17	0 ON JUL 19	843	1981
1982	---	18.2 B ON APR 13	0 B ON MAR 1	9 380	1982
1983	43.9 B AT 09 24 CST ON APR 9 *	35.8 B ON APR 10	0 B ON MAR 1	22 500	1983
1984	9.64 AT 09 04 CST ON JUN 16	4.25 ON JUN 16	0 B ON MAR 1	1 050	1984
1985	13.8 B AT 12 30 CST ON MAR 25	12.2 B ON MAR 25	0 B ON MAR 1	11 200	1985
1986	25.1 B AT 04 26 CST ON MAR 29	21.5 B ON MAR 29	0 ON JUL 9	19 400	1986
				16 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	2.89	0.799	0.144	0.001	0.034	0.008	0	---	---	0.800	1980
1981	---	---	0.084	0.781	0.118	0.009	0	0	0	0	---	---	0.240	1981
1982	---	---	0	0.513	0.238	0.239	0.017	1.81	0.081	0.028	---	---	0.245	1982
1983	---	---	0.422	5.31	1.14	3.77	---	---	---	---	---	---	2.83	1983
1984	---	---	0	0.343	---	---	---	---	---	---	---	---	---	1984
1985	---	---	0.078	0.980	1.56	0.030	0.018	0	0	0	---	---	0.885	1985
1987	---	---	0	3.80	1.38	0.013	0.001	0.001	0	0	---	---	1.24	1987
1988	---	---	0.081	0.149	0.075	0.041	0.039	0.233	0.063	0.088	---	---	0.086	1988
1989	---	---	0	3.31	1.22	0.387	0.029	0.021	0.003	0.003	---	---	1.22	1989
1970	---	---	0	1.57	0.905	0.172	0.017	0	0	0	---	---	0.859	1970
1971	---	---	0	0.956	0.209	0.024	0.115	0	0	0.004	---	---	0.294	1971
1972	---	---	0	1.45	0.089	0.005	0	0	0	0	---	---	0.380	1972
1973	---	---	0.100	0.010	0.003	0.401	---	---	---	---	---	---	0.127	1973
1974	---	---	0	11.2	8.47	0.778	---	---	---	---	---	---	5.10	1974
1975	---	---	0	0.816	0.153	0.050	---	---	---	---	---	---	0.252	1975
1976	---	---	0	7.00	0.726	0.099	---	---	---	---	---	---	1.83	1976
1977	---	---	0	0.041	0.028	0.079	---	---	---	---	---	---	0.037	1977
1978	---	---	0	6.83	1.03	0.228	---	---	---	---	---	---	2.00	1978
1979	---	---	0	3.88	5.03	1.46	---	---	---	---	---	---	2.84	1979
1980	---	---	0	0.431	0	0	---	---	---	---	---	---	0.106	1980
1981	---	---	0.080	0.174	0.006	0.006	---	---	---	---	---	---	0.066	1981
1982	---	---	0.079	3.37	0.436	0.288	---	---	---	---	---	---	1.03	1982
1983	---	---	0.061	3.04	0.234	0.489	---	---	---	---	---	---	0.943	1983
1984	---	---	0.061	0.205	0.016	0.051	---	---	---	---	---	---	0.080	1984
1985	---	---	0.306	0.749	0.082	0.007	---	---	---	---	---	---	0.279	1985
1986	---	---	0.474	3.18	2.22	0.019	---	---	---	---	---	---	1.47	1986
MEAN	---	---	0.089	2.41	1.09	0.352	0.024	0.180	0.016	0.012	---	---	0.893	MEAN

LOCATION - LAT 50 34 50 N DRAINAGE AREA, 153 km²
LONG 97 02 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "OSIER CREEK" PRIOR TO 1979. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	6.40 B ON APR 16	0B ON MAR 1 *	9 480	1980
1981	---	1.73 ON APR 21	0B ON MAR 1	2 540	1981
1982	---	2.72 ON APR 24	0B ON MAR 1	2 580	1982
1983	---	12.3 B ON APR 8	0B ON MAR 1	27 800	1983
1984	---	---	0B ON MAR 1	---	1984
1985	---	4.73 ON MAY 4	0B ON MAR 1	7 010	1985
1987	---	11.7 ON APR 30	0B ON MAR 1	13 100	1987
1988	---	1.84 E ON MAR 30	0B ON MAR 1	810	1988
1989	---	10.7 ON APR 14	0B ON MAR 1	12 900	1989
1970	---	5.21 ON APR 18	0B ON MAR 1	6 950	1970
1971	---	3.17 B ON APR 11	0B ON MAR 1	3 100	1971
1972	---	8.81 ON APR 18	0B ON MAR 1	4 000	1972
1973	---	2.02 ON JUN 21	0B ON MAR 1	1 340	1973
1974	---	37.7 ON APR 20 *	0B ON MAR 1	53 800	1974
1975	---	3.11 ON APR 21	0B ON MAR 1	2 660	1975
1976	---	12.2 ON APR 17	0B ON MAR 1	20 400	1976
1977	---	0.884 ON JUN 18	0B ON MAR 1	386	1977
1978	---	15.3 ON APR 14	0B ON MAR 1	21 000	1978
1979	---	11.2 ON APR 28	0B ON MAR 1	30 000	1979
1980	---	1.82 B ON APR 8	0B ON MAR 1	1 120	1980
1981	0.420 AT 14 31 CST ON APR 10	0.408 ON APR 10	0B ON MAR 1	888	1981
1982	8.82 AT 00 40 CST ON APR 15	8.83 B ON APR 15	0B ON MAR 1	10 800	1982
1983	8.85 AT 14 34 CST ON APR 6	8.78 B ON APR 5	0B ON MAR 1	9 840	1983
1984	0.756 AT 18 30 CST ON MAR 30	0.6318 ON MAR 30	0B ON MAR 1	839	1984
1985	3.16 B AT 23 39 CST ON MAR 31	2.54 B ON APR 1	0B ON MAR 1	2 840	1985
1986	9.93 B AT 20 34 CST ON APR 1 *	8.50 B ON APR 1	0B ON MAR 1	15 500	1986
				10 500	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON CREEK NEAR MCCREARY - STATION NO 05LJ801

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	0.611	0.076	0.008	0	0.081	---	---	---	---	1959
1960	---	---	---	---	0.877	0.125	0.057	0.061	0.015	---	---	---	---	1960
1961	---	---	---	---	0.386	0.011	0.002	0.001	0.004	---	---	---	---	1961
1962	---	---	---	---	0.323	0.246	0.021	0.083	0.029	---	---	---	---	1962
1963	---	---	---	---	---	0.588	0.358	0.085	0.076	---	---	---	---	1963
1964	---	---	---	---	0.527	0.057	0.019	0.008	0.007	---	---	---	---	1964
1965	---	---	---	0.291	0.887	0.276	0.045	0.024	0.498	0.038	---	---	---	1965
1966	---	---	0.037	0.291	0.598	0.102	0.042	0.209	0.020	0.036	---	---	---	1966
1967	---	---	---	0.431	0.842	0.153	0.023	0.011	0.002	0.044	---	---	---	1967
1968	---	---	---	0.278	0.277	0.148	0.201	0.140	0.112	0.059	---	---	---	1968
1969	0.003	0.006	0.057	0.518	0.200	0.891	0.480	0.078	0.083	0.101	0.031	0.010	0.205	1969
1970	0.008	0.005	0.005	0.084	1.88	0.449	0.143	0.021	0.047	0.083	0.095	0.015	0.237	1970
1971	0.020	0.021	0.021	0.489	0.193	1.04	0.243	0.055	0.053	0.348	0.089	0.022	0.211	1971
1972	0.008	0.004	0.006	0.424	0.384	0.098	0.024	0.020	0.017	0.011	0.006	0.006	0.082	1972
1973	0.004	0.003	0.030	0.135	0.170	0.259	0.085	0.095	0.200	0.233	0.084	0.047	0.112	1973
1974	0.044	0.040	0.037	0.613	0.807	0.213	0.070	0.041	0.043	0.042	0.017	0.014	0.185	1974
1975	0.023	0.018	0.020	0.278	0.542	0.331	0.031	0.285	1.58	0.527	0.087	0.021	0.310	1975
1976	0.010	0.013	0.018	0.886	0.262	0.211	0.048	0.018	0.015	0.011	0.007	0.004	0.122	1976
1977	0.005	0.007	0.006	0.045	0.102	0.040	0.489	0.041	0.418	0.110	0.027	0.023	0.108	1977
1978	0.024	0.010	0.013	0.448	0.255	0.084	0.009	0.006	0.092	0.040	0.045	0.028	0.086	1978
1979	0.051	0.052	0.054	0.279	1.30	0.383	0.058	0.033	0.031	0.008	0.008	0.012	0.189	1979
1980	0.008	0.005	0.004	0.195	0.049	0.024	0.058	0.427	0.047	0.081	0.077	0.018	0.082	1980
1981	0.005	0.005	0.025	0.038	0.130	0.191	0.020	0.007	0.013	0.048	---	---	---	1981
1982	---	---	---	0.674	0.242	0.152	0.092	0.018	0.032	0.335	0.113	---	---	1982
1983	---	---	---	---	0.501	0.202	0.338	0.031	0.014	0.022	---	---	---	1983
MEAN	0.015	0.015	0.024	0.355	0.494	0.253	0.118	0.070	0.140	0.113	0.081	0.018	0.159	MEAN

LOCATION - LAT 50 43 46 N LONG 99 33 15 W
DRAINAGE AREA, 22.8 km²
NATURAL FLOW
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

WILSON CREEK NEAR MCCREARY - STATION NO 05LJ801

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	---	0 ON JUL 13 *	---	1959
1960	---	2.28 R ON MAY 26	0.012R ON SEP 12	---	1960
1961	---	1.12 R ON MAY 5	0 R ON JUL 2	---	1961
1962	---	3.31 R ON MAY 30	0 R ON JUN 14	---	1962
1963	---	4.58 ON JUN 10	---	---	1963
1964	---	2.09 ON MAY 10	---	---	1964
1965	---	3.86 R ON APR 29	0 ON APR 1	---	1965
1966	---	---	---	---	1966
1967	---	1.61 R ON MAY 15	0 ON SEP 15	---	1967
1968	---	1.25 ON JUL 1	0.024R ON OCT 14	---	1968
1969	---	8.35 R ON JUN 27	0.003B ON JAN 1	6 440	1969
1970	---	5.80 R ON MAY 8	0.006RB ON JAN 26	7 480	1970
1971	---	9.51 R ON JUN 6	0.013 ON SEP 28	8 670	1971
1972	---	2.83 R ON APR 26	0.001R ON JUN 30	2 800	1972
1973	---	1.23 R ON JUN 20	0.003RB ON JAN 11	3 540	1973
1974	---	4.11 R ON MAY 11	0.006RB ON NOV 8	5 220	1974
1975	---	16.6 ON SEP 18 *	0 R ON JUL 25	9 780	1975
1976	---	2.75 R ON APR 14	0.003RB ON MAR 21	3 870	1976
1977	---	7.74 R ON JUL 11	0.001R ON AUG 24	3 410	1977
1978	---	1.92 ON APR 27	0 ON JUL 10	2 710	1978
1979	10.6 AT 00 39 CST ON MAY 17 *	6.18 ON MAY 17	0.003 ON SEP 8	5 960	1979
1980	---	3.00 R ON AUG 21	0 ON SEP 13	2 580	1980
1981	---	0.698 ON JUN 15	0.002 ON AUG 16	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1 1986		5 020	MEAN

WILSON RIVER NEAR ASHVILLE - STATION NO 05LJ045

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	22.8	12.5	1.45	0.038	0.001	0	0	---	---	4.56	1979
1980	---	---	0.017	4.85	0.088	0.002	0	0.152	0.131	0.113	---	---	0.658	1980
1981	---	---	0.550	0.770	0.787	1.43	0.104	0.001	0.001	0.003	---	---	0.453	1981
1982	---	---	0.078	5.15	0.518	0.078	0.008	0.232	0.004	0.317	---	---	0.787	1982
1983	---	---	0	19.5	4.82	0.941	0.327	0.010	0.001	0.001	---	---	3.15	1983
1984	---	---	0.215	0.545	0.814	0.194	0.019	0.001	0.001	0.010	---	---	0.225	1984
1985	---	---	0.003	15.2	0.733	0.756	0.068	1.10	0.789	2.48	---	---	2.61	1985
1986	---	---	4.78	10.2	13.4	0.235	0.074	0.086	0.005	0.003	---	---	3.60	1986
MEAN	---	---	0.707	9.88	4.21	0.636	0.080	0.195	0.118	0.366	---	---	2.01	MEAN

LOCATION - LAT 51 09 30 N LONG 100 20 00 W
DRAINAGE AREA, 885 km²
NATURAL FLOW

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	157 AT 03:53 CST ON APR 22 *	183 ON APR 22 *	0 B ON MAR 1 *	86 500	1979
1980	---	13.0 B ON APR 7	0 B ON MAR 1	13 900	1980
1981	8.26 AT 04:00 CST ON MAY 30	7.32 ON MAY 30	0 ON AUG 11	9 530	1981
1982	---	16.9 ON APR 18	0 B ON MAR 1	15 700	1982
1983	182 AT 05:21 CST ON APR 24	154 ON APR 24	0 B ON MAR 1	65 700	1983
1984	2.48 AT 15:32 CST ON APR 3	1.838 ON APR 4	0 B ON MAR 1	4 760	1984
1985	29.8 B AT 15:01 CST ON APR 5	27.5 B ON APR 16	0 B ON MAR 1	55 100	1985
1986	105 A AT 16:30 CST ON MAY 5	79.8 A ON MAY 5	0.001 ON SEP 20	75 100	1986
				42 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	0	17.3	20.7	0.855	2.12	0.878	0.112	0.012	---	---	5.25	1948
1949	---	---	0.085	5.85	0.988	2.37	0.515	0.116	0.003	0.013	---	---	1.20	1949
1950	---	---	0	5.73	4.88	4.42	5.18	0.394	0.018	0.278	---	---	2.73	1950
1951	---	---	0	9.10	5.22	0.865	0.204	0.029	0.082	0.383	---	---	1.84	1951
1952	---	---	0.005	12.2	0.868	0.194	0.016	0	0.541	0.089	---	---	1.71	1952
1953	---	---	---	11.0	9.79	24.1	4.30	0.507	0.387	2.83	1.05	---	---	1953
1954	---	---	0	10.1	7.40	13.1	9.82	0.138	0.895	1.88	0.344	---	5.38	1954
1955	---	---	0	14.7	10.8	5.87	0.721	0.037	0	0.025	---	---	4.10	1955
1956	---	---	0	10.4	19.0	6.32	4.99	0.323	0.161	0.124	---	---	5.15	1956
1957	---	---	0.289	21.6	4.73	0.785	0.126	0.013	0.002	0.025	---	---	3.40	1957
1958	---	---	0.300	1.92	0.185	0.086	0.037	0	0	0	---	---	0.308	1958
1959	---	---	0.385	1.35	0.710	1.83	0.848	0.008	0	0.027	---	---	0.825	1959
1960	---	---	0	18.3	7.94	2.17	0.089	0.005	0	0	---	---	3.28	1960
1961	---	---	0	0.001	0.052	0	0	0	0	0	---	---	0.007	1961
1962	---	---	0	4.28	0.749	0.347	0	0	0	0	---	---	0.882	1962
1963	---	---	1.19	3.47	0.851	2.94	0.588	0.035	0	0	---	---	1.09	1963
1964	---	---	0	7.03	3.28	0.083	0.116	0.004	0	0	---	---	1.30	1964
1965	---	---	0	8.84	3.56	2.05	0.411	0.056	3.27	0.586	---	---	2.32	1965
1966	---	---	0.330	19.0	8.87	1.14	0.808	0.364	0.004	0.002	---	---	3.75	1966
1967	---	---	0.003	16.4	11.3	0.834	0.048	0.006	0.002	0	---	---	3.51	1967
1968	---	---	1.28	2.57	0.177	0.039	0.008	0.013	0.005	0	---	---	0.506	1968
1969	---	---	0	10.0	0.484	2.28	4.06	0.193	0.003	0.004	---	---	2.11	1969
1970	---	---	0.013	16.5	18.4	2.13	2.62	0.598	0.084	0.328	---	---	5.07	1970
1971	---	---	0.040	14.3	1.52	7.30	0.824	0.172	0.003	0.294	---	---	3.01	1971
1972	---	---	2.81	15.0	2.75	0.208	0.031	0.004	0	0.002	---	---	2.54	1972
1973	---	---	0.086	0.385	0.132	0.510	0.048	0.020	0.713	2.28	---	---	0.505	1973
1974	---	---	0.079	32.9	28.3	1.43	0.126	0.005	0.007	0.014	---	---	7.82	1974
1975	---	---	0.010	15.4	5.99	3.70	0.125	0.305	8.75	2.86	---	---	4.88	1975
1976	---	---	0.001	25.2	1.83	11.6	0.707	0.022	0.005	0.001	---	---	4.84	1976
1977	---	---	0.002	0.390	0.188	0.030	0.910	0.148	1.19	0.843	---	---	0.438	1977
1978	---	---	0.070	11.0	2.30	0.392	0.025	0.003	0.002	0.030	---	---	1.70	1978
1980	---	---	0.030	5.44	0.195	0.082	0.128	0.139	0.187	0.073	---	---	0.891	1980
1981	---	---	0.578	1.06	0.917	1.81	0.145	0.004	0	0	---	---	0.570	1981
1982	---	---	0.057	8.08	0.756	0.136	0.053	0.320	0.058	0.319	---	---	0.959	1982
MEAN	---	---	0.224	10.4	5.45	3.01	1.23	0.142	0.483	0.374	0.897	---	2.53	MEAN

LOCATION - LAT 51 12 30 N, LONG 100 10 45 W
DRAINAGE AREA, 925 km^2
NATURAL FLOW

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	70.8 ON APR 25	0 B ON MAR 1 *	111 000	1948
1949	---	12.8 ON APR 12	0 E ON SEP 26	25 400	1949
1950	---	27.8 B ON APR 18	0 B ON MAR 1	57 800	1950
1951	---	35.4 ON APR 30	0 B ON MAR 1	41 100	1951
1952	---	43.9 B ON APR 8	0 B ON MAR 1	36 200	1952
1953	---	84.8 ON JUN 5	---	---	1953
1954	---	54.9 ON JUL 2	0 B ON MAR 1	114 000	1954
1955	---	41.6 ON MAY 6	0 B ON MAR 1	86 800	1955
1956	---	58.0 ON APR 25	0 B ON MAR 1	109 000	1956
1957	---	98.5 ON APR 26	0 B ON MAR 1	72 000	1957
1958	---	7.53 B ON APR 1	0 B ON MAR 1	6 470	1958
1959	---	8.75 ON JUN 19	0 B ON MAR 1	13 200	1959
1960	---	44.5 B ON APR 13	0 B ON MAR 1	89 500	1960
1961	---	0.227 ON MAY 17	0 B ON MAR 1	142	1961
1962	---	18.4 ON APR 20	0 B ON MAR 1	14 000	1962
1963	---	10.7 ON APR 9	0 B ON MAR 1	23 000	1963
1964	---	18.6 ON APR 13	0 B ON MAR 1	27 500	1964
1965	---	27.9 ON APR 14	0 B ON MAR 1	49 000	1965
1966	---	56.1 ON APR 3	0 B ON MAR 1	79 300	1966
1967	---	83.5 ON APR 28	0 E ON AUG 17	74 400	1967
1968	---	7.65 B ON MAR 29	0 B ON MAR 1	10 700	1968
1969	---	51.3 ON APR 14	0 B ON MAR 1	44 800	1969
1970	---	72.8 B ON APR 26	0.0098 ON MAR 1	107 000	1970
1971	---	61.4 B ON APR 11	0.001 ON AUG 29	83 700	1971
1972	---	26.9 ON APR 18	0 ON AUG 31	53 800	1972
1973	---	7.85 ON OCT 5	0 B ON MAR 1	10 700	1973
1974	---	174 ON APR 20 *	0 ON AUG 20	185 000	1974
1975	105 AT 23 15 CST ON SEP 20 *	81.3 ON SEP 20	0.002 ON AUG 3	89 100	1975
1976	---	75.3 ON JUN 14	0 B ON MAR 1	102 000	1976
1977	---	8.41 ON SEP 27	0 B ON MAR 1	9 230	1977
1978	---	32.0 B ON APR 11	0 ON AUG 11	36 000	1978
1980	---	26.8 B ON APR 7	0 ON JUN 9	18 900	1980
1981	9.92 AT 03 37 CST ON MAY 31	8.94 ON MAY 31	0 ON AUG 9	12 100	1981
1982	---	17.1 A ON APR 19	0 B ON MAR 1	20 300	1982
				53 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	5.86	2.79	1.03	0.364	0.105	2.73	0.839	---	---	1.82	1965
1966	---	---	0.264	13.1	6.34	0.688	0.597	0.292	0.001	0	---	---	2.64	1966
1967	---	---	0	12.0	8.80	0.193	0.008	0	0	0	---	---	2.61	1967
1968	---	---	1.48	1.95	0.108	0.016	0.054	0.109	0.001	0	---	---	0.462	1968
1969	---	---	0	7.38	0.212	2.41	3.03	0.019	0.006	0.087	---	---	1.82	1969
1970	---	---	0.003	16.4	17.6	1.51	1.87	0.163	0.103	0.410	---	---	4.74	1970
1971	---	---	0.018	11.5	0.894	4.95	0.757	0.110	0.001	0.286	---	---	2.28	1971
1972	---	---	1.80	12.0	2.10	0.048	0	0	0	0	---	---	1.95	1972
1973	---	---	0.173	0.259	0.127	0.384	0.014	0.010	0.539	1.25	---	---	0.383	1973
1974	---	---	0.071	20.4	22.3	0.810	0.028	0.002	0.004	0.005	---	---	5.44	1974
1975	---	---	0	13.0	3.86	3.14	0.042	0.151	9.47	1.36	---	---	3.82	1975
1976	---	---	0.125	20.6	1.33	7.42	0.458	0.002	0	0	---	---	3.67	1976
1977	---	---	0	0.375	0.193	0.036	0.905	0.054	1.20	0.447	---	---	0.400	1977
1978	---	---	0.053	8.62	1.38	0.089	0.007	0	0.004	0.052	---	---	1.26	1978
MEAN	---	---	0.271	10.3	4.86	1.62	0.581	0.073	1.00	0.339	---	---	2.36	MEAN

LOCATION - LAT 51 07 35 N
LONG 100 28 20 W
DRAINAGE AREA 848 km^2
NATURAL FLOW

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	23.3 ON APR 15	0B ON MAR 1 *	38 500	1965
1966	---	33.1 B ON APR 2	0 ON SEP 8	55 900	1966
1967	---	47.6 ON APR 27	0B ON MAR 1	55 200	1967
1968	---	10.2 B ON MAR 29	0B ON MAR 1	9 780	1968
1969	---	49.8 B ON APR 13	0B ON MAR 1	34 300	1969
1970	---	110 ON MAY 4	0B ON MAR 1	100 000	1970
1971	---	47.0 B ON APR 10	0 ON SEP 24	48 200	1971
1972	---	31.1 ON APR 21	0 ON JUN 25	41 200	1972
1973	---	8.51 ON OCT 4	0B ON MAR 1	7 270	1973
1974	---	135 ON MAY 23 *	0 ON AUG 4	115 000	1974
1975	136 AT 14 56 CST ON SEP 19 *	96.8 ON SEP 19	0B ON MAR 1	80 900	1975
1976	---	59.5 ON APR 10	0 ON AUG 21	77 700	1976
1977	---	7.67 ON SEP 27	0B ON MAR 1	8 480	1977
1978	---	18.2 B ON APR 10	0 ON JUL 29	26 700	1978
				49 900	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO 05PF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	1 530	1 090	829	678	675	---	---	---	1956
1957	---	---	---	---	---	743	1 130	954	842	852	724	---	---	1957
1958	---	---	---	---	615	504	828	487	487	589	804	844	---	1958
1959	884	833	785	727	787	1 140	1 260	1 040	829	1 040	1 050	996	931	1959
1960	1 040	972	919	995	996	802	711	676	693	659	688	785	826	1960
1961	792	738	733	840	715	578	836	528	537	---	---	---	---	1961
1962	---	---	---	---	---	1 800	1 340	1 670	1 710	1 230	---	---	---	1962
1963	---	---	---	---	---	1 100	1 190	---	---	---	---	---	---	1963
MEAN	839	848	812	787	778	1 000	986	884	782	804	782	808	879	MEAN

LOCATION - LAT 50 22 00 N DRAINAGE AREA 126 000 km²
LONG 95 20 20 W REGULATED

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO 05PF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	1 810 ON JUN 18	837E ON SEP 15	---	1956
1957	---	1 330 ON JUL 28	552 ON SEP 18	---	1957
1958	---	---	371 ON SEP 7 *	---	1958
1959	1 390 AT 04:00 CST ON JUL 18 *	1 390 ON JUL 17	834E ON JAN 8	29 400 000	1959
1960	---	1 180 ON JAN 23	578 ON NOV 4	26 100 000	1960
1961	889 AT 11:00 CST ON JAN 7	884 ON JAN 7	---	---	1961
1962	---	2 140E ON SEP 2 *	---	---	1962
1963	---	1 440 ON JUL 8	---	---	1963
				27 800 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WINNIPEG RIVER AT SLAVE FALLS - STATION NO 05PF063

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1907	785	648	491	413	482	793	907	887	1 040	1 200	1 210	1 120	829	1907
1908	1 040	1 040	889	807	922	1 180	1 220	1 120	1 020	935	804	880	989	1908
1909	701	684	533	473	575	896	899	895	631	578	579	638	823	1909
1910	715	687	674	1 130	1 500	1 380	1 050	700	556	481	405	387	803	1910
1911	423	374	345	340	420	521	648	738	701	735	648	548	536	1911
1912	568	480	390	381	645	799	747	787	840	981	957	840	700	1912
1913	794	736	529	494	806	952	842	781	709	507	434	409	666	1913
1914	383	371	387	407	520	912	1 030	912	738	897	581	552	627	1914
1915	515	492	448	508	795	921	1 020	989	676	589	801	622	683	1915
1916	663	715	759	741	1 260	1 660	1 890	1 800	1 480	1 270	972	925	1 180	1916
1917	879	1 100	907	907	718	591	437	512	553	548	559	544	685	1917
1918	524	488	498	541	559	855	628	590	549	549	553	583	561	1918
1919	570	512	558	819	712	640	1 060	1 200	991	844	719	580	789	1919
1920	501	527	575	705	882	1 170	1 050	775	625	567	456	433	697	1920
1921	416	394	379	642	1 040	943	820	747	671	709	681	617	673	1921
1922	558	519	475	555	1 160	1 240	994	824	767	623	536	481	728	1922
1923	433	399	469	822	949	787	687	688	674	672	622	575	648	1923
1924	533	514	465	495	649	665	665	580	525	527	477	442	545	1924
1925	419	332	312	351	487	653	786	746	662	601	541	483	533	1925
1926	454	436	424	466	846	720	876	872	716	1 000	1 330	1 020	749	1926
1927	939	919	957	1 130	2 080	2 360	2 410	2 110	1 420	941	832	703	1 400	1927
1928	594	623	660	706	727	702	1 330	1 150	851	987	1 040	908	858	1928
1929	775	781	822	833	865	606	558	476	492	516	535	551	633	1929
1930	515	441	444	482	554	563	507	442	398	352	361	425	457	1930
1931	400	364	347	363	327	331	348	346	343	382	398	411	363	1931
1932	405	395	378	460	818	565	502	397	328	374	420	433	440	1932
1933	442	444	556	1 010	1 020	663	611	531	452	415	479	583	599	1933
1934	602	596	616	696	883	1 120	1 200	1 150	898	827	726	887	836	1934
1935	599	577	522	642	778	763	842	845	807	888	803	740	735	1935
1936	689	704	782	672	926	926	684	578	506	493	500	502	864	1936
1937	515	496	460	512	827	899	983	1 220	897	642	594	618	724	1937
1938	563	549	560	596	1 560	2 080	1 780	751	685	593	583	822	903	1938
1939	600	614	539	540	546	547	582	577	501	467	517	532	546	1939
1940	517	537	484	485	457	481	459	379	342	391	453	443	452	1940
1941	437	410	415	480	586	578	521	505	590	1 760	2 120	1 580	834	1941
1942	1 180	903	770	670	663	739	574	559	780	738	684	644	737	1942
1943	591	667	713	747	1 130	1 770	2 280	1 390	767	918	807	752	1 050	1943
1944	713	724	729	890	711	1 190	1 770	1 340	1 600	832	708	815	994	1944
1945	863	839	798	1 210	1 680	1 140	804	765	696	649	735	770	913	1945
1946	732	755	784	1 060	1 330	1 110	939	770	648	645	733	763	856	1946
1947	781	875	931	985	1 080	1 440	1 860	1 030	789	678	686	720	987	1947
1948	734	745	759	806	1 450	1 020	717	734	641	598	644	644	792	1948
1949	657	669	649	656	743	620	577	541	539	632	820	829	661	1949
1950	779	772	770	766	1 890	2 710	2 850	2 520	2 040	1 090	951	855	1 470	1950
1951	915	951	967	1 020	1 510	1 330	1 010	691	629	658	688	804	931	1951
1952	889	876	861	844	891	632	707	945	779	636	636	696	767	1952
1953	660	629	619	622	853	894	959	887	897	662	656	684	719	1953
1954	700	709	768	932	1 590	2 440	2 300	1 140	823	791	772	752	1 150	1954
1955	675	663	639	784	845	832	854	747	602	582	644	708	713	1955
1956	720	805	895	1 030	1 310	1 490	1 150	874	895	635	638	674	909	1956
1957	671	692	667	667	824	697	1 120	919	593	591	669	723	738	1957
1958	762	749	719	634	590	480	806	685	406	537	578	618	595	1958
1959	658	813	763	703	748	1 160	1 310	1 060	777	1 000	1 030	1 010	920	1959
1960	1 000	957	903	981	988	791	699	644	663	635	650	764	806	1960
1961	756	713	668	809	898	551	497	426	433	500	553	651	587	1961
1962	657	668	611	658	787	1 540	1 260	1 600	1 650	1 210	848	919	1 040	1962
1963	954	973	920	966	985	1 060	1 180	1 090	886	831	886	940	973	1963
1964	934	933	859	834	982	852	1 420	881	1 250	2 190	1 860	1 210	1 170	1964
1965	1 050	1 070	1 190	1 380	1 500	1 680	1 500	881	857	1 120	1 730	1 270	1 270	1965
1966	1 340	1 380	1 420	1 710	2 280	2 260	1 800	872	937	891	930	933	1 390	1966
1967	887	880	824	843	773	729	727	824	654	671	784	871	787	1967
1968	851	844	799	850	580	1 100	1 770	1 540	1 440	1 580	1 890	1 520	1 210	1968
1969	1 430	1 510	1 500	1 460	1 170	1 320	1 290	1 280	1 350	1 320	1 320	1 310	1 350	1969
1970	1 290	1 280	1 300	1 240	1 620	2 100	1 900	975	940	1 110	1 580	1 610	1 410	1970
1971	1 560	1 490	1 468	1 490	1 410	1 190	940	726	600	714	1 610	1 820	1 250	1971
1972	1 500	1 480	1 490	1 530	1 400	853	610	620	716	729	893	910	1 060	1972
1973	963	989	945	590	456	401	347	496	817	1 090	1 420	1 320	819	1973
1974	1 280	1 270	1 250	1 470	2 200	2 850	2 360	1 270	1 188	1 130	1 080	1 280	1 530	1974
1975	1 190	1 330	1 410	1 410	1 380	988	1 270	727	629	604	786	881	1 050	1975
1976	919	938	959	1 020	720	521	405	382	351	372	403	404	620	1976
1977	4 4	562	556	272	148	122	194	217	444	1 160	1 340	1 420	576	1977
1978	1 340	1 230	1 280	1 300	977	1 060	1 350	998	1 250	1 040	841	990	1 150	1978
1979	996	957	878	989	1 620	1 600	890	577	649	771	742	846	963	1979
1980	905	961	1 040	1 030	735	369	259	269	308	405	538	735	629	1980
1981	818	846	619	388	264	283	507	317	407	574	679	623	520	1981
1982	686	797	660	606	786	1 090	1 000	916	771	905	1 070	1 330	884	1982
1983	1 300	1 130	1 060	956	573	506	810	532	451	620	838	921	780	1983
1984	941	936	862	716	588	835	886	819	542	595	786	918	766	1984
1985	936	936	931	764	1 250	1 930	2 200	1 540	1 440	1 600	1 770	1 340	1 390	1985
1986	1 300	1 270	1 310	1 220	1 620	1 380	739	894	628	789	819	888	1 050	1986
MEAN	780	775	757	793	950	1 030	1 030	846	766	783	820	804	845	MEAN

LOCATION - LAT 50 13 30 N, LONG 95 34 15 W

DRAINAGE AREA 125 000 km²

REGULATED SINCE 1907

DATA CONTRIBUTED BY - CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

WINNIPEG RIVER AT SLAVE FALLS · STATION NO 05PF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1907	---	1 250 ON OCT 22	408 ON APR 5	26 200 000	1907
1908	---	1 250 ON JUN 27	614 ON DEC 27	30 700 000	1908
1909	---	807 ON JAN 13	456 ON APR 17	18 700 000	1909
1910	---	1 510 ON MAY 7	351 ON DEC 24	25 300 000	1910
1911	---	787 ON OCT 12	306 ON MAR 27	17 000 000	1911
1912	---	1 030 ON OCT 31	237 ON MAR 25	22 100 000	1912
1913	---	985 ON JUN 12	388 ON DEC 27	21 000 000	1913
1914	---	1 080 ON JUL 16	331 ON FEB 22	19 800 000	1914
1915	---	1 080 ON JUL 19	411 ON APR 4	21 800 000	1915
1916	---	1 970 ON JUL 24	592 ON JAN 1	37 300 000	1916
1917	---	1 180 ON FEB 13	402 ON JUL 22	21 600 000	1917
1918	---	688 ON JUN 20	456 ON MAR 3	17 700 000	1918
1919	---	1 290 ON JUL 28	442 ON MAR 9	24 300 000	1919
1920	---	1 200 ON JUN 7	405 E ON NOV 28	22 100 000	1920
1921	---	1 100 ON MAY 25	379 E ON MAR 1	21 200 000	1921
1922	---	1 420 ON MAY 25	447 ON APR 2	23 000 000	1922
1923	---	1 010 ON MAY 9	398 E ON FEB 5	20 400 000	1923
1924	---	725 ON JUN 5	419 ON DEC 19	17 200 000	1924
1925	---	813 ON JUL 4	275 ON APR 5	15 800 000	1925
1926	---	1 440 ON NOV 4	357 ON MAR 21	23 800 000	1926
1927	---	2 450 ON JUL 19	623 ON DEC 31	44 200 000	1927
1928	---	1 450 ON JUL 23	527 ON FEB 5	27 100 000	1928
1929	---	900 ON MAR 25	418 ON SEP 15	20 000 000	1929
1930	---	865 ON MAY 26	294 ON NOV 2	14 400 000	1930
1931	---	447 ON DEC 3	274 ON JUN 28	11 500 000	1931
1932	---	888 ON MAY 10	286 ON SEP 25	13 900 000	1932
1933	---	1 250 ON APR 23	382 ON OCT 8	18 900 000	1933
1934	---	1 230 ON JUL 15	561 ON JAN 1	26 400 000	1934
1935	---	1 020 ON JUL 29	430 ON MAR 10	23 200 000	1935
1936	---	1 080 ON MAY 25	433 ON OCT 18	21 000 000	1936
1937	---	1 270 ON AUG 7	418 ON MAR 28	22 800 000	1937
1938	---	2 280 ON MAY 30	498 ON APR 3	28 500 000	1938
1939	---	648 ON FEB 20	422 ON OCT 15	17 200 000	1939
1940	---	558 ON FEB 11	317 ON SEP 7	14 300 000	1940
1941	---	2 190 ON NOV 6	345 ON MAR 28	26 300 000	1941
1942	---	1 250 ON JAN 2	507 ON AUG 25	23 300 000	1942
1943	---	2 390 ON JUL 19	530 ON JAN 9	33 000 000	1943
1944	---	1 920 ON JUL 17	520 ON OCT 29	31 400 000	1944
1945	---	1 780 ON MAY 9	578 ON OCT 27	28 800 000	1945
1946	---	1 390 ON MAY 17	566 ON SEP 7	27 000 000	1946
1947	---	2 040 ON JUL 2	597 ON OCT 11	31 100 000	1947
1948	---	1 720 ON MAY 19	552 ON OCT 13	25 000 000	1948
1949	---	900 ON NOV 20	487 ON SEP 3	20 900 000	1949
1950	---	2 780 ON JUN 19	711 ON APR 13	46 300 000	1950
1951	---	1 720 ON MAY 22	575 ON SEP 15	29 400 000	1951
1952	---	1 000 ON AUG 17	524 ON JUN 28	24 300 000	1952
1953	---	1 030 ON JUN 12	580 ON MAR 8	22 700 000	1953
1954	---	2 800 ON JUN 30 *	880 ON JAN 8	38 100 000	1954
1955	---	1 050 ON JUN 4	538 ON SEP 10	22 500 000	1955
1956	---	1 590 ON JUN 18	589 ON SEP 20	28 800 000	1956
1957	---	1 370 ON JUL 28	462 ON SEP 15	23 300 000	1957
1958	---	810 ON FEB 27	261 ON SEP 6	18 800 000	1958
1959	---	1 420 ON JUL 17	809 ON JAN 8	28 000 000	1959
1960	---	1 140 ON APR 29	544 ON NOV 8	25 500 000	1960
1961	---	827 ON JAN 8	323 ON AUG 28	18 500 000	1961
1962	---	2 110 ON SEP 2	589 ON MAR 13	32 700 000	1962
1963	---	1 480 ON JUL 8	718 ON SEP 28	30 700 000	1963
1964	---	2 520 ON OCT 15	857 ON JUN 14	37 000 000	1964
1965	---	1 880 ON NOV 6	782 ON SEP 7	40 100 000	1965
1966	---	2 410 ON MAY 23	759 ON AUG 24	43 900 000	1966
1967	---	943 ON JAN 2	552 ON OCT 8	24 800 000	1967
1968	---	1 990 ON AUG 1	524 ON MAY 31	38 400 000	1968
1969	---	1 750 ON JUL 2	900 ON MAY 29	42 700 000	1969
1970	---	2 190 ON JUN 17	755 ON AUG 20	44 800 000	1970
1971	---	2 000 ON DEC 10	498 ON SEP 21	39 400 000	1971
1972	---	1 870 ON MAY 4	507 ON JUL 29	33 400 000	1972
1973	---	1 460 ON NOV 13	280 ON JUL 3	25 800 000	1973
1974	---	2 750 ON JUL 1	971 ON NOV 12	48 300 000	1974
1975	---	1 510 ON JUL 14	547 ON OCT 28	33 100 000	1975
1976	---	1 080 ON APR 16	286 ON DEC 19	19 800 000	1976
1977	---	1 500 ON DEC 13	51 0 ON JUN 12 *	18 200 000	1977
1978	---	1 570 ON JUL 17	852 ON MAY 23	36 100 000	1978
1979	---	1 790 ON MAY 26	456 ON AUG 13	30 400 000	1979
1980	---	1 080 ON MAR 12	91 0 ON SEP 2	19 900 000	1980
1981	---	815 ON JAN 18	149 ON JUN 8	16 400 000	1981
1982	---	1 430 ON DEC 20	515 ON JAN 2	27 900 000	1982
1983	---	1 420 ON JAN 23	317 ON OCT 2	24 900 000	1983
1984	---	987 ON DEC 31	444 ON SEP 1	24 200 000	1984
1985	---	2 430 ON JUL 19	868 ON APR 22	43 800 000	1985
1986	---	1 870 ON MAY 25	572 ON SEP 7	33 200 000	1986
				28 700 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

E - ESTIMATED

WINNIPEG RIVER BELOW FOURTH FALLS , SEVEN SISTERS - STATION NO 05PF015

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	---	---	322	203	253	276	282	270	---	---	1917
1918	---	244	245	272	286	375	340	306	276	274	263	261	---	1918
1919	282	232	284	487	417	354	702	633	654	---	---	---	---	1919
MEAN	282	238	265	380	352	350	415	464	403	278	267	261	---	MEAN

LOCATION - LAT 50 07 15 N
LONG 95 00 40 W REGULATED

WINNIPEG RIVER, HEAD OF GRAND DU BONNET FALLS - STATION NO 05PF044

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	---	---	---	---	---	750	641	546	---	1911
1912	525	426	---	---	---	---	---	---	---	---	---	---	---	1912
MEAN	529	426	---	---	---	---	---	---	---	750	641	546	---	MEAN

LOCATION - LAT 50 26 20 N
LONG 95 58 30 W REGULATED

WOODY RIVER AT BOWSMAN - STATION NO 05LE002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0 972	3 11	0 855	0 220	0 425	0 283	---	---	1915
1916	---	---	---	5 10	8 63	23 5	7 11	1 29	0 564	1 80	1 27	---	6 19	1916
1917	---	---	---	1 59	21 6	6 03	9 69	1 03	0 657	0 200	---	---	---	1917
1918	---	---	---	3 71	3 44	11 5	12 1	2 45	0 586	0 594	0 939	---	4 42	1918
1919	---	---	---	6 15	3 66	1 06	2 16	0 705	2 28	---	---	---	---	1919
MEAN	---	---	---	4 14	9 33	9 10	6 83	1 29	0 865	0 755	0 831	---	5 31	MEAN

LOCATION - LAT 52 13 00 N DRAINAGE AREA 1 660 km²
LONG 101 13 00 W NATURAL FLOW

WOODY RIVER AT BOWSMAN - STATION NO 05LE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---	---	---	1915
1916	---	36 5 ON JUN 11	0 227 ON SEP 8 *	130 000	1916
1917	---	43 3 ON MAY 5 *	---	---	1917
1918	---	31 4 ON JUL 2	0 227 ON SEP 25	93 200	1918
1919	---	11 66 ON APR 8	---	---	1919
				112 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	10.7	28.9	31.4	14.1	4.96	10.9	4.43	---	---	---	1954
1955	---	---	---	23.0	26.5	4.47	1.98	0.181	0.044	0.174	---	---	---	1955
1956	---	---	---	9.20	31.3	12.5	8.64	1.62	0.588	0.946	---	---	---	1956
1957	---	---	0.283	15.8	17.2	4.69	1.03	0.422	1.07	1.08	---	---	5.17	1957
1958	---	---	0.059	2.90	2.30	1.43	9.35	1.07	0.286	0.502	---	---	2.30	1958
1959	---	---	0.742	2.62	5.46	5.11	5.89	0.220	2.52	1.92	---	---	3.06	1959
1960	---	---	0.120	14.3	14.5	11.0	2.89	1.20	0.152	0.023	---	---	5.45	1960
1961	---	---	0	0.677	1.43	0.689	0.088	0	0.023	0.024	---	---	0.365	1961
1962	---	---	0	3.13	5.76	0.997	0.119	0.017	0.732	1.62	---	---	1.55	1962
1963	---	---	0.197	8.19	5.13	5.66	0.874	0.281	0.164	0.085	---	---	2.55	1963
1964	---	---	0	2.90	9.70	1.32	0.956	2.03	5.21	4.06	---	---	3.40	1964
1965	---	---	0.325	10.9	15.4	26.0	5.80	2.04	3.40	4.35	---	---	8.45	1965
1966	---	---	0.625	16.1	15.0	16.3	5.43	4.17	1.86	---	---	---	9.52	1966
1967	---	---	0.573	2.40	39.7	14.0	1.82	1.03	0.330	0.264	---	---	7.54	1967
1968	---	---	0.783	3.47	2.06	4.80	3.64	10.6	3.67	0.822	---	---	3.74	1968
1969	---	---	0.782	14.6	6.24	3.05	3.66	1.55	0.481	5.84	---	---	4.52	1969
1970	---	---	0.340	10.5	24.5	10.4	10.5	2.20	0.315	2.45	---	---	7.55	1970
1971	---	---	0.513	26.2	10.1	7.83	1.52	0.592	0.088	2.83	---	---	6.40	1971
1972	---	---	0.561	27.2	36.3	4.49	3.61	0.916	0.250	0.467	---	---	9.47	1972
1973	---	---	2.20	4.00	5.17	15.0	7.04	1.25	0.620	1.17	---	---	5.05	1973
1974	---	---	0.586	23.7	40.1	11.3	1.63	1.27	2.61	2.83	---	---	10.5	1974
1975	---	---	0.415	14.1	17.6	15.0	5.30	2.31	4.47	5.80	---	---	6.12	1975
1976	---	---	0.485	15.0	2.87	13.5	7.43	0.884	0.188	0.055	---	---	5.04	1976
1977	---	---	0.163	5.07	3.23	1.64	1.74	4.61	5.32	6.34	---	---	4.00	1977
1978	---	---	0.506	13.6	8.42	2.84	2.81	0.905	2.10	3.50	---	---	4.46	1978
1979	---	---	0.366	20.1	22.5	22.7	2.07	0.142	0.050	0.510	---	---	6.75	1979
1980	---	---	0.022	8.02	1.76	0.380	2.63	6.17	6.18	5.26	---	---	4.04	1980
1981	---	---	0.906	5.20	5.04	1.92	3.66	4.88	0.435	6.20	---	---	4.66	1981
1982	---	---	0.202	4.90	5.85	5.09	16.1	4.59	1.12	4.50	---	---	6.11	1982
1983	---	---	0.452	24.5	27.2	13.2	23.7	4.02	4.75	4.20	---	---	12.6	1983
1984	---	---	7.95	36.5	39.8	23.2	3.15	0.765	0.567	2.83	---	---	14.3	1984
1985	---	---	0.726	26.9	12.1	5.86	2.86	5.46	3.37	4.96	---	---	6.01	1985
1986	---	---	3.11	32.6	16.2	6.33	4.05	0.914	0.470	1.53	---	---	8.74	1986
MEAN	---	---	0.801	13.6	15.9	10.1	5.42	2.27	2.24	2.60	---	---	6.22	MEAN

LOCATION - LAT 52 15 30 N DRAINAGE AREA 2 110 km²
LONG 101 06 15 W NATURAL FLOW

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	117 ON JUN 16	---	---	1954
1955	---	56.4 B ON APR 5	---	---	1955
1956	---	53.0 ON MAY 5	---	---	1956
1957	---	41.3 ON APR 25	0.196 ON AUG 13	110 000	1957
1958	---	24.0 ON JUL 1	0.0578 ON MAR 1	46 700	1958
1959	---	14.0 ON JUL 1	0 B ON MAR 1 *	65 200	1959
1960	67.4 ON APR 15	56.0 ON APR 15	0.006 ON OCT 28	116 000	1960
1961	---	1.87 ON MAY 15	0 B ON MAR 1	1 740	1961
1962	---	18.8 B ON APR 20	0 B ON MAR 1	32 800	1962
1963	---	32.8 B ON APR 6	0 B ON MAR 1	53 800	1963
1964	---	17.0 ON MAY 15	0 B ON MAR 1	71 800	1964
1965	---	66.5 ON JUN 5	0.113 ON SEP 15	178 000	1965
1966	---	45.7 B ON APR 7	0.2928 ON MAR 1	201 000	1966
1967	---	74.8 B ON MAY 7	0 ON JUL 29	159 000	1967
1968	---	20.1 ON AUG 1	0.0408 ON MAR 1	75 200	1968
1969	---	51.5 B ON APR 13	0 ON AUG 28	95 700	1969
1970	---	45.3 ON MAY 24	0.042 ON SEP 18	182 000	1970
1971	---	87.7 ON APR 17	0 ON AUG 18	136 000	1971
1972	---	153 ON APR 22	0 ON SEP 23	201 000	1972
1973	45.5 AT 18 02 CST ON JUN 6	43.6 ON JUN 5	0 B ON MAR 1	107 000	1973
1974	---	140 B ON APR 21	0.483 ON AUG 11	221 000	1974
1975	86.5 AT 20 20 CST ON APR 22	61.2 ON APR 22	0.2618 ON APR 5	172 000	1975
1976	70.5 AT 06 00 CST ON APR 10	53.4 ON APR 10	0 ON SEP 30	107 000	1976
1977	14.4 AT 14 11 CST ON SEP 26	14.2 ON SEP 26	0 B ON MAR 1	84 600	1977
1978	56.5 AT 00 36 CST ON APR 19	50.4 ON APR 19	0.1908 ON MAR 12	94 400	1978
1979	126 AT 10 55 CST ON APR 25 *	113 ON APR 25	0 ON AUG 25	206 000	1979
1980	---	31.5 B ON APR 14	0 B ON MAR 1	85 400	1980
1981	15.5 AT 23 55 CST ON MAY 2	15.3 ON MAY 3	0 ON SEP 5	86 700	1981
1982	74.8 AT 02 55 CST ON JUL 19	67.1 ON JUL 19	0 B ON MAR 1	130 000	1982
1983	---	170 B ON APR 25 *	0.4358 ON MAR 1	271 000	1983
1984	75.0 AT 02 34 CST ON MAY 22	75.2 ON MAY 21	0 ON AUG 30	303 000	1984
1985	---	52.6 B ON APR 14	0.3198 ON MAR 5	170 000	1985
1986	55.4 AT 19 45 CST ON APR 5	47.1 ON APR 11	0.020 ON SEP 25	185 000	1986
				132 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NAME	STATION NO	PAGE
ANGLE DRAIN NEAR GLENELLA	05LL026	1
ANGLING RIVER NEAR BIRD	05UH001	1
ANTLER RIVER NEAR MELITA	05NF002	2
ARROW RIVER NEAR ARROW RIVER	05MG001	3
ARROW RIVER NEAR KELLOE	05MG009	4
ASSINIBOINE RIVER AT BRANDON	05MH001	5
ASSINIBOINE RIVER AT MEADINGLEY	05MJ001	7
ASSINIBOINE RIVER AT ST JAMES	05MJ002	8
ASSINIBOINE RIVER NEAR BRANDON	05MH013	9
ASSINIBOINE RIVER NEAR HOLLAND	05MH005	9
ASSINIBOINE RIVER NEAR MINIOTA	05ME006	10
ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE	05MJ003	11
ASSINIBOINE RIVER NEAR ROSSENDALE	05MJ005	12
ASSINIBOINE RIVER NEAR RUSSELL	05ME001	13
BADGER CREEK NEAR CARTWRIGHT	05QA007	15
BALD HILL CREEK NEAR MCCREARY	05LJ805	16
BARRINGTON RIVER BELOW FIRST RAPIDS	06EB003	16
BEAVER CREEK EAST OF BEAVER	05LL028	17
BEAVER CREEK NEAR BEAVER	05LL022	17
BELL RIVER NEAR BELLSITE	05LF002	18
BERENS RIVER ABOVE LITTLE GRAND RAPIDS	05RD001	19
BERENS RIVER AT OUTLET OF LONG LAKE	05RD007	19
BIG GRASS RIVER NEAR GLENELLA	05LL015	20
BIRCH RIVER AT BIRCH RIVER	05LE003	21
BIRCH RIVER NEAR BIRCH RIVER	05LE010	22
BIRD RIVER AT OUTLET OF BIRD LAKE	05PJ001	22
BIRDTAIL CREEK AT BIRTLE	05ME802	23
BIRDTAIL CREEK NEAR BIRTLE	05ME003	24
BIRNIE CREEK NEAR BIRNIE	05LL017	25
BLACK RIVER NEAR MANIGOTAGAN	05RA802	25
BLOODVEIN RIVER ABOVE BLOODVEIN BAY	05RB003	26
BOSSHILL CREEK NEAR VIRDEN	05MG002	27
BOYNE CHANNEL NEAR HOMEWOOD	05OF004	27
BOYNE RIVER NEAR CARMAN	05OF003	28
BOYNE RIVER NEAR RATHWELL	05OF007	28
BOYNE RIVER NEAR ROSEISLE	05OF011	30
BOYNE RIVER NEAR STEPHENFIELD	05OF006	31
BOYNE RIVER NEAR TREHERNE	05OF010	32
BROKENHEAD RIVER AT ST QUENS	05SA001	32
BROKENHEAD RIVER NEAR BEAUSEJOUR	05SA002	33
BROKENHEAD RIVER NEAR VIVIAN	05SA004	34
BUFFALO LAKE CHANNEL NEAR ALTONA	05QC025	35
BURNT LAKE DRAIN NO 1 NEAR DEERHORN	05LN002	36
BURNT LAKE DRAIN NO 2 NEAR LUNDAR	05LN003	37
BURNTWOOD RIVER ABOVE LEAF RAPIDS	05TE002	37
BURNTWOOD RIVER ABOVE THREE POINT LAKE	05TE001	38
BURNTWOOD RIVER NEAR THOMPSON	05TG001	38
CHURCHILL RIVER ABOVE GRANVILLE FALLS	06EA006	39
CHURCHILL RIVER ABOVE LEAF RAPIDS	06EB004	40
CHURCHILL RIVER ABOVE RED HEAD RAPIDS	06FD001	41
CHURCHILL RIVER BELOW FIDLER LAKE	06FB001	41
COCHRANE RIVER NEAR BROCHET	06DA002	42
CONJURING CREEK NEAR RUSSELL	05ME005	43
COOKS CREEK AT COOKS CREEK	05OJ006	44
COOKS CREEK NEAR EAST SELKIRK	05OJ002	45
COOKS CREEK NEAR GLASS	05OJ007	46
CRYSTAL CREEK NEAR CRYSTAL CITY	05OB006	47
CYPRESS CREEK NEAR CLEARWATER	05OB010	48
CYPRESS CREEK NEAR SARLES	05OB031	49
CYPRESS RIVER AT CYPRESS RIVER	05MH002	49
CYPRESS RIVER NEAR BRUNELLES	05MH008	50
CYPRESS RIVER NEAR CYPRESS RIVER	05MH004	51
DAUPHIN RIVER NEAR ANAMA BAY	05LM006	51
DEAD CREEK NEAR LEE RIVER NORTH OF PINAWA	05PF005	52
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DEADHORSE CREEK AT MORDEN	05QC015	52
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DEER RIVER NORTH OF BELCHER	06FD002	53
DEVILS CREEK NEAR LIBAU	05OJ016	54
DEVILS CREEK NEAR SEMPLE	05OJ012	54
DOMAIN DRAIN NEAR DOMAIN	05QG009	55
DRAINAGE DITCH NEAR LIBAU	05QJ013	55
DRIFTING RIVER NEAR ASHVILLE	05LJ017	56
DUCK RIVER AT COWAN	05LG004	56
EAST FISHER RIVER NEAR HODGSON	05SD004	57
EASTERN TRIBUTARY TO EDWARDS CREEK	05LJ032	58
EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS	05LJ029	58
EDWARDS CREEK DRAIN BELOW JACKFISH CREEK	05LJ047	59
EDWARDS CREEK NEAR DAUPHIN	05LJ022	60
EDWARDS CREEK NEAR DAUPHIN AIRPORT	05LJ020	60
EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE	05LJ030	61
ELGIN CREEK NEAR SOURIS	05NG012	62
ELM CREEK CHANNEL NO 1 NEAR FANNYSTELLE	05QG004	63
ELM CREEK CHANNEL NO 2 NEAR ELM CREEK	05QG005	63
ELM CREEK CHANNEL NO 3 NEAR ELM CREEK	05QG006	64
EPINETTE CREEK NEAR CARBERRY	05MH007	65
FAIRFORD RIVER NEAR FAIRFORD	05LM001	66
FISH LAKE DRAIN NEAR CAMP MORTON	05SB005	67
FISH LAKE DRAIN NEAR MELEB	05SB004	68
FISHER RIVER NEAR DALLAS	05SD007	68
FISHING RIVER NEAR FORK RIVER	05LJ015	69
FOOTPRINT RIVER ABOVE FOOTPRINT LAKE	05TF002	70
FORK RIVER NEAR ETHELBERT	05LJ016	71
GAINSBOROUGH CREEK NEAR LYLETON	05NF007	72
GAINSBOROUGH CREEK NEAR MELITA	05NF003	72
GARLAND RIVER NEAR DUCK RIVER	05LG006	73
GARLAND RIVER NEAR GARLAND	05LG003	74
GARLAND RIVER NEAR PULP RIVER	05LG002	75
GAUER RIVER BELOW THORSTEINSON LAKE	06FA001	75
GIMBY CREEK NEAR CARTWRIGHT	05QA015	76
GODS RIVER AT OUTLET OF GODS LAKE	04AC005	77
GODS RIVER NEAR SHAMATTAWA	04AD002	78
GOPHER CREEK NEAR GLADSTONE	05LL024	79
GOPHER CREEK NEAR VIRDEN	05MG003	80
GRAHAM CREEK NEAR MELITA	05NF008	81
GRASS RIVER ABOVE STANDING STONE FALLS	05TD001	82
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